## 40 Cars in Stock for

## Immediate Delivery

## IIGHT CAR

## Authorised Agents for

## AUSTIN

 CITROEN CLYNO JOWETT LEA FRANCIS WOLSELEY10 Cars umoix £250

BY PAYING
$\mathbf{E 3 8}$ Down
you can drive a car away, fully taxed and insured. Balance payable over 12 months.

All EXCakes
of Light Cars
Supplied on
Deferred
Terms

## You want

 the best Light CarWe have it!The prospective owner who has decided to drive his car while he pays for it, instead of wasting months until he can pay the full purchase price, has one or two points to consider.
How much can he pay, how long shall the payments continue, and what the payments cover.
Frankly we urge our clients to complete payments within 12 months, thus avoiding the renewal of tax and insurance premium at inconvenient moments.
The first payment, under our system, includes tax and insurance; under many systems these items are annoying extras.
For further details write to us, or just call in and have a quiet chat.
In addition to Immediate Delivery the NORMAND GARAGE offers :

FREE SERVICE FOR SIX MONTHS.
GOOD PRICES IN PART EXCHANGE.
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Payment Tetms $33 \%$
Our "Service Guarantee" is unique. write for particulars.
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(Near Marble Arch). Telephone: Grosvenor 3250/8
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Equipped with the most Modern Machinery in the World


BRITISH PROGRAMME
7.5 h．p． 3 －seater Cloverleaf $11 \cdot 4$ h．p．4－seater
114 hp ．

114 h ．p．All－Steel 4 －seater with Front Wheel Brakes
114 h．p．All－Steel Saloon with Front Wheel Brakes
114 h．p． 3 －seater Coupe with Front Wheel Brakes－
CITROEN CARS，LTD．，
Citroèn Bullding，Brook Green，Hammersmith，London，W． 6

## The Worlds

 SupremeValue！

A corner of our we l-stuked Douth Aensmbion Dhowrooms.
A this time of the yearshere are very few aecond-hand cara on one of the most intereank rocka in London of aecond-hand

## CARS

and in order to find floor space for she large number of new modela, deliverien of which have naw commenced. Inylora have decided that up to March 31 at all their second-land cara, at exceptionnlly

## TAX PAID

W"̈sh lew exceptions, all cara have been carefully overhauled and are covered by Taylora" suaraniee. They are vailable either for cash or under Iaylors" All-in "Policy of Hire Purchase, partizularn of FREE
If you contemplate the purchane of a necond-hand car, there in a decided advantage in buying it now, providing you come to Taylors,

## UNTIL MARCH 31

 and remember the offer ising it now, providing youTaylora full liit of second-hand cara will be aent you poat free. but. hetter atill, if you can arratge lo call, you can zhen inspect the fineat asock of aecond-hand cara in London at yourleisure at our extensive showrooms, a section of which in ahown above.

A Selection from This Week's Snips ROVER. 8 h.p, 1922, 2-nenter RALMSON, $10 \mathrm{~h} . \mathrm{D}, 1923$, 2-neater sport
JOWEYT, 558
580 CIIROEN, 7h.p. 1925. Clover-leaf ( 2 for dilponal) $\mathbf{5 9 5}$ AUSTIN, 7 h.D. 1924
MORGAN. $10 \mathrm{~h} . \mathrm{D} ., 1926$, Anzani engine
SAMMSAN, 9 , 11 h.D. 1925 . 2 -aeater
STANDARD, 11 h.D. 1924, 2-seate
STANDARD, II h.D.. 4-str., New 1925 Model SINGER, 10 h.p., De Luxe
FREE BUYER'S GUIDE Fill in this COUPON and post to-day.

H. TAYLOR \& Co., Ltd.,

49, 59, 52 \& 53, SUSSEX PLACE, SOUIH KENSINGTON, S.W.7.
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WHICH INCLUDES:

## TAX \&

 INSURANCEFOR 12 MONTHS
NUMBER PLATES, LICENCE HOLDER. DELIVERY TO YOUR DOOR, FREE TUITION, 12 MONTHS' SERVICE,

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# Jowett <br> 2-SEATER 

$$
\begin{array}{lll}
2 \text { - SEATER } £ 150 & \text { LIGHT FOUR } & £ 160 \\
\text { FULL FOUR } £ 167 & \text { SALOON } & \text {.. } \\
£ 200
\end{array}
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CROYDON, RTD.
OFFICIAL SERVICE DEPOTS AT KINGSTON \& CROYDON 35, Surbiton Rd.

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Fatty oils contained in Huile de Luxe have a softening and solvent action on the black carbonaceous matter produced by combustion of the mineral-oil content. With Huile de Luxe this reduction of carbon is effected without another trouble-gumming-taking its place, for no castor oil is blended into this smoothest of all motor lubricants. That is why motorists are continually sending us, unsolicited, their records of reduced operating costs and better running, achieved entirely by Huile de Luxe.

pRICE: Patent candee co. ltu.
HATTERSEA, LONDON, S.W. II
"With Huile de Luxe I have increased intervals between decarbonisation $50 \%$."


Prepared in three Grades ZERO-WINTER-SUMMER

# London to Coprinall-295 miles 

## in

 $a$
# day 

inlon. S.E. 10 January 2nd. 1926.

IRAN a 1924 model 114 h.p. 2-3 seater Standard car from London to St. Tres, Cornwall, in one day on Thursday last. Learing Loudon (Piccadilly) at $9.15 \mathrm{a} . \mathrm{m}$. I kept going all day with the exceptions of a stop to clean water out of the carburetter, a stop to fll up with petrol, and a 30 minutes stop for food. I arrived at St. Tres, a distance of 295 miles, at 10.15 p.in.
"The car ran perfectly all through and used just under 8 galls. of Benzol Mixture-consumption heing a little over 37 miles per gallon-and balf a gallon of oil. Cousidering the rough state of the roads. especially at this time of the year, I think. it a very creditable performance for a small car."
A.E.H.

## Standard



## The 11 h.p. "COVENTRY"

A 2 -seater with roomy dickey for 2 people. As cosy as a coupe. Choice of 3 colours. Upholstery to match. Standard patent side screens. Zofelac Cellulose finish. Equipment everything you $£ 225$ require
-
Dumlos Cord Tyres (Balleon or Standarm)
Whiefor fuli particulart
The Standard Motor Co., Lid.. Coventry.
London Shotrooms: fo, Pall Mall Sy. Sgenda ererymeder.
"Count them on the Road."


READERS, NOTE.-It assists the small car movement and the advertiser, and ensures you prompt attention, to mention "The Light Car and Cyclecar" in your enquiries.


## Remarkable Value for \&225

DEINFORCED balloon tyres -four-wheel brakes-real leather I covered pneumatic upholstery-screen wiper-12-volt electrical equipment-spring gaiters-luggage grid-sounds like a $£ 500$ car, docsn't it ?
With the hood and rigid side screens up you would really think you were in a salcon. No draughts-no rain-no worry about the weather.
Such amazing value is not obtainable in any other car at anything near the price.
Buy it as you buy your house-small deposit down-pay the rest as convenient.
Trial run or catalogue free on request.
10-26 H P. DE LUXE FOUR-SEATER
$£ 225$
H. B. COOK, LTD.
202. Gt. Portland Street, London, W.1.


Gram.-" Remabout London."

## Equipment includes

Rotox 12 -vole electrical cquipment. four-
wheel brakes, electric horn, Joeper new Wheel brakes, electric horn. Joence new
'ype specdometer, nutomaticacreen wiper.

 lifts, Icather or Bedlord $\begin{gathered}\text { Bpholatery }\end{gathered}$ -...................
, Mãa Woodwright


## Like an extra

 InsuranceA Ber-kel Spring Bumper is like an extra insurance policy-but cheaper. It will protect your car in head-on collisions-take the shock of the impact in its Spring-bar sprung on springs. However carefully you may drive there is the ever present risk of collisions through the faults of others. Protect your万he BER-KMPEL can be fitted in $15-30$ minutes
direct from the manulacturers. direci from the manufacturers.
Models suitable for MORRIS and AUSTIN " 7 " Models suitable for MORRIS and AUSTIN " 7 "

## Richard Berry 8 Son 

## Alma Street, Birmingham

 ShockAbsorber The STOTT Anlibounce-in 50 to $75 \%$ cheoper than the ordinary type and the most efficient becaume it checke rebound at the atarting print-in the epring isself. The Stott Antibounce can befficiency remaina ns long an the apringa Obtainabledirccifromthe manula: 1 urera.

## Richard Berry \& Son sprimicm (Confort) Saftr

 Mafeking Road, Smethwick. (Psoprielurl: J. Brockhonue $\&$ Co., Lid.)Price from $11: 6$ per pair 1$)^{-}$ Price from 11/6 per pair 15"
wide. Mention make and wide. Mention make and E.C. R. writes from Dulwich : "The'A Ant- Bouncr chlpu hate now
bern Alted and the reinlis are excel.

 sake thrse roada
$v$ Olipu are splendi
 Telcohong : Netherm 48 (Proprietors: J. Brockchouse \& Co., Ltd.) Telegrams : "Springs, Birmingham."


OLD King Coal has reason to be proud of the spirit he produces for the "black diamond" yields the "gem" of motor fuels-National Benzole.
Apart from the unparalleled advantages that accrue through its use Motorists have the satisfaction of knowing that by using National Benzole Mixture they are assisting the exploitation of British Coal resources and supporting our insular independence by purchasing the product of British Collieries.
Next time you fill up insist on National Benzole Mixture and watch the wonderful difference it makes to the running and how it reduces running costs.

National Benzole Mixture
"The unrivalled Motor Spirit."

Na. 3.

## Coke Quenching

When the coking period is completed the mass of fiery red-hot coke is pushed out of the coke ovens and quenched with water either from a special quenching machine as depicted in the illustration or by means of hosepipes. This is one of the most impressive sights to be aeen at large Coke Oven Works and is accompanied by a iremendous hissing and volume of smoke and steam. The coke when quenched is used in the blast fumsise for the amelting of iron. In the next advertisement we will trace the progress of the volatile by-products produced during the carbonisation of the coal.

# National Benzole Mixture 

## "The world's best motor spirit"

NATIONAL BENZOLE COMPANY LIMITED, WELLINGTON HOUSE, BLCKINGHAM GATE, LONDON, S.W.t.

The small advertiscment columns of "The Light Car and Cyclecar" form a unique marl for the disposal of all goods of interest to small car users.

# WANTS YOUR USED CAR IN PART EXCHANGE FOR ANY MAKE OF NEW CAR. 

PART EXCHANGE HOUSE

## YOU W'ILL OBTAIN THE HIGHEST POSSIBLE PRICE FOR YOUR USED CAR AT PARTEXCHANGE HOUSE. <br> ?- Write for Catalogues and Booklet on Deferred Terms.

SPECIAL DEFERRED TERMS OVER LONG PERIODS

31, BROOK ST., BOND ST., LONDON, W. \(1 \begin{gathered}Mhonei<br>Mayta 295 .\end{gathered}\)

## A five-seconds Job for Car Comfort


-one hand-one push -that is all
to lubricate the entire spring the wick tube does the rest.

TOU hill save vime and expense, and safepuard your conifort and the smooth
runging of your power unit, when to your running of your pow
carsprings you ft

Our FREE Illustrated List No. 45 L tells you just hou. Write for it NOW.

RAMSDENS (HALIFAX) LIMITED, 147:9, GREAT PORTLAND STREET, LONDON, W.1.
 FACTORY. HALIFAX ENGLAND.
As Manufacturers of the following, we should be pleased to sand particulars, on request, for Fabram Radiator Covers, Tool Bags and Rolls, Dust Sheets, Wheel Covers, etc.


The Salmson cannot be compared with any other car-it stands alone in price and performance.

Why not try for yourself ?

## ROYAL AIR FORCE, QUETTA, <br> Baluchistan,

 India.Dear Sirs,
Since leaving England I have again and again read of the excellent work. done hy Salmsons, and am writing to say how well Salmson X.T. 1768 served me.

I did several runs to Scotland and many all-night runs to Yorkshire, and my average never went down beloul 27. The car used regularly one Gallon for 43 miles, and never once gave trouble. When I return to England again I hope to buy another Salmson.

Would you please send out to me the latest catalogues and illustrations of your new Salmsons, and if possible keep me up to date with these lists.
$I$ would also like to know the cost of transporting a Salmson from England to India.

Agrin congratulating you on Salmson successes.
Yours faithfully, W.T.A., R.A.F.

The 60 m.p.h. model.


Deferred
Terms
Over
Long
Periods.


31, Brook Street, Bond Street, London, W.1.


## BOON \& PORTER, L ${ }^{\text {TD. }}$ Concessionnaires.

The Amilcar appeals to the experienced motorist the man who knows-and is looking for a car that is built right throughout. The prices range from $£ 265$ (coupe) to £375 (Weymann Four-door Saloon). Exceptionally liberal deferred and exchange terms can be immediately arranged.
 Touring 4 - Seater
In an account of this car in its editorial columns on February 12th, "The Light Car" said:-" We can confidently recommend this latest $10-22$ h.p. Bayliss Thomas . . . . . . a very pleasing vehicle. . . . . even with full load very lively on the road . . . . . steering not only finger-light, but permits of fast cornering with absolute safety . . . . . . the interior furnishing reveals good taste and .... the car is really weatherproof." Try this wonderful car for yourself and you will fully endorse these comments. It is a triumph of British skill-and value.

Full details of all modelson request. BAYLISS THOMAS \& CO., TYSELEY, BIRMINGHAM.

The EXCELSIOR MOTOR Co., Ltd. 'Phones : 277-8 Acocks Green. Wires: "Monarch, Haumills."

Irish Representative: GEORGE ELLIS, Cabra Motor Works, Everton Avenue, N.C.R., DUBLIN.

FACILIT A TE BUSINESS, and ensure prompt altention to your enquirics, by mentioning


## Be sure

it's a
"Schrader."
(neod. Trode Nark)

## Look for

the name.

I- HE constant, unfailing performance in holding air in tyres and helping to prolong their life has made the Schrader Tyre Valve famous throughout the length and breadth of the motor world. It is the reason why tyre manufacturers througbout Great Britain bave made it standard equipment for their tyres, and why you also should "be sure it's a Schrader-look for the name."

The Schrader Valve is the best device known for bolding air in tyres and for giving them longer life. It is accurately and well made: it will stand hard use. It is simple in construction, and with normal care ontlasts the tube.

Every valve is tested before it leaves the factory and again by the tyre mater before it reaches you. You can always rely on the Schrader Tyre Valve 10 retain air effectively without delays and troubles.

## Schrader Tyre Valves

A. Schrader's Son, Inc. Offices nod Main Distribution Stores: $26-29$ New Sticel,




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Our Telephone Number is Museum 8603.
Head Office and Works: Frinton-on-Sea.


The small advertiscment columns of "The Light Car and Cyclecar" form a uniquc mat far the


Reasons you should fit DUACS
British Patent, British Materials, and British Labour throughout. 12 Months' Guarantee.

Both Actions Independent and Independently Adjustable. Progressive in Action.

Write for Booklet to
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MENTION of "The Light Car and Cycleca," when corresponding with adierlisers assists the cause of economical motoring.

## Buy British Goods for they are the BEST "HEMICO" Car Polish

-still stands alone as
1.

A Car Cleanser and Polish combined.
2.

A time saver. A car can be cleaned in 20 minutes.
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An economical polish. A 2!- bottle will clean and polish a car 30 times.
4.

A brilliant polish and especially suitable for cellulose finishes.

If you have not tried this speedy, brilliant polish. send direct to us for a liberal testing sample sent POST FREE.

THE COUNTY CHEMICAL CO.,LTD., CHEMICO WORKS,
BIRMINGHAM

Prompt delivery now given of STEPNEY TYRES | nemiogecip |
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in the following new sizes:

ASK FOR "STEPNEY TYRES."
STEPNEY TYRES LTD., Llanelly and Walthamstow, London, E. 17


WHEN REPLYING to advertisements, mention "The Light Car and Cyclecar." It helps the

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YOU have been familiar with a series of $10 \mathrm{~h} . \mathrm{p}$. Swifts for years, we have no doubt. You have taken their reliability for granted.

But have you made yourself familiar with the $192610 \mathrm{h.p}$. Swift? It is not a modification of the $1925 \quad 10$ h.p., but an entirely new production for which we claim greater efficiency.

Four-wheel braking, unit construction, single plate clutch, artillery wheels, adjustable foot pedals, three-bearing crankshafi, steering column controls and aluminium-alloy pistons are a few outstanding features of the new $10 \mathrm{~h} . \mathrm{p}$. Chassis, while the coachwork provides luxurious comfort for driver and passengers and is beautifully upholstered and finished.

You are invited to test our claim of greater efficiency. Drop us a line for Catalogue and the address of our nearest Agent who will be pleased to demonstrate a $10 \mathrm{~h} . \mathrm{p}$. to you.

## 1926 Prices.

$$
10 \text { h.p. 4-seater - - } £ 235
$$

10 h.p. 2/3-seater - $\quad £ 235$
10 h.p. "Quinton " Saloon £285
Complete with Four-Wheel Brakes and Dunlop Balloon Tyres.


Manufacturers:

## SWIFT OF COVENTRY LIMITED, COVENTRY.

London Showrooms, Repair and Service Depot : 134/5, Long Acre, W.C.2.
(One minute Irom Lelcester Square Tube Station.)


NOW ON SALE

Price<br>as Usual<br>$:: 4^{\text {D. }:: ~}$

Offices:
7-15. Rosebery Avenue,
London, E.C.I

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ALL THE CARS ON THE BRITISH MARKET.
A comprehensive compendium with a specification of each chassis, together with details as to bodywork, dimensions, special features and prices. No other publication gives this information in such complete form, and much of it is not included in the manufacturers own catalogues.

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Full technical details of the four-litre supercharged car for short-distance record attempts.

THE BRITISH-BUILT CHASSIS OF 1926.
Methods of construction revealed by an anolysis of 115 chassis.

## "EASY-TC-LOOK-AFTER" CARS.

Examining a car with a view to cstimating the work needed to keep it in order.

WILL THE CAR FIT THE GARAGE?
The importance of overall dimensions, turning circle, etc.

MISTAKES THE NEW DRIVER SHOULD AVOID.
Errors commonly made by those new to driving.
AN ENTIRELY NEW METHOD OF CAR CONSTRUCTION.

Reducing chassis weight by 50 per cent
WHEN BUYING A CAR.
Things the new owner should know.

## FUELS FOR RACING.

The characteristics of dopes and special mixtures and their effect upon performance. By Dr. W. R. Ormandy.

## OWNER-DRIVER TOPICS.

Useful suggestions for minor improvernents Hints on running, adjustments and repairs.

Next Tuesday-March 9th. HOW TO GET THE BEST OUT OF A $10-26$ h.p. SINGER. PSYCHOLOGY OF CAR INSURANCE.

SIGNALLING ON ROAD SURFACES.

And all the News and News Pictures.



Congratulations to the fellows who are following my example!
I am downright glad to see that other pumps are beginning to earn their guarantee medals by supplying spirit from sealed tanks. I like to see the public protected in that way.
Five years ago I started that system-that's how I got this medal. It is the proof of my integrity, proof that the spirit
you get from me is the one you want-PRATTS, powerful, filtered and guaranteed pure.


## B.S.M.Marsshaill Litdl.

THHE two cars shown are significant of 1 the fact that I sell all makes.
You can buy them anywhere, but witn Marshall Service-only here.
Gencrous Deferred Terms spread over three months to three years arranged and

## LEA-FRANCIS

Reliable is as reliable does." $10 \mathrm{~h} . \mathrm{p}$. Two-seater 12 h.p. Four-seater 12 h.p. Four-seater 12 h.p. Saloon 12/40 h.p.Super-Sports
 17A Hlanover Square, London, W.j. liosourright


A NECESSARY 'SPARE.'
Miles away from a Garage with a broken ignition wire. Then does YLUXITE prove ut worth, A minute spent with a hot soldering Iron some solder and FLUXITE-and the engine is running
 the FLUXITE way is simply child's play.

All Motorists and Motorcyclists should have the

## FLUXITE SOLDERING SET

It is perfectly simple to useand will last foryears in consiant use. It contains a special " small space " Soldering Iron, with nonheating metal handie, a Pocket Blow Lamp,
FLUXITE, Solder, etc., and full instructions. Price $7 / 6$. Write to us should you be unable to obtain it.
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FLUXITE SIMPLIFIES SOLDERING
Another use for Flaxifa: Hardening Tools and Case H
FLUXITE, LTD. (Dept. 420), West Lame Works. Rotherhithe, S.E.16.
handsome allowance for your present car. The cars shown may not suit you, but as I have no manufacturer's interests to serve I can sell you any car.
Send for illustrated booklet - "Cars that Count."



## A SIMPLE OUESTION

Why are the busiest British Car Manufacturers of to day fitting

## cox hrinos <br> CARBURETTERS A SIMPLE ANSWER

It is because the Cox "ATMOS" ensures an engine performance which the motoring public appreclate, i.e., easy starting. good get-away from cold, flexibility, smoothness, power on hills, less carbon deposit. less trouble, all-round economies, AND IS ABSOLUTELY ALL-BRITISH.

Why not have one fitted to your car? Write for booklets which you will find most interesting.
COX CARBURETTERS LTD., LOWER ESSEX STREET, BIRMINGHAM.

List of Service Agents who can fit you up will also be sent.

 and Benefits.

THE Owner-Drivers' Club has been founded with a view to effecting substantial economies in the cost of motoring to the Owner-Driver, and while not antagonistic to any other existing organization, offers unique benefits.
Official Repairers and Stockists have been appointed in almost every town throughout the country, thus ensuring Members of competent handling of their cars in cases of accident or mechanical breakdown.
A fixed price for repairs, arranged between the Club Executive and their Official Repairers, guarantees against overcharging. Further, a general speeding-up in the supply of spare parts, including defunct makes. if still in existence, tyres, etc., saves much worry and loss of time.
Join this exclusive club now, and enjoy the many privileges of a first-class organization. Send postcard for explanatory brochure post free.

## The OWNER-DRIVERS' CLUB, LTD.,

 Executive Offices: Criterion Buildings,PICCADILLY CIRCUS, LONDON W.1.


TO THE READER.-By mentioning "The Light Car and Cyclecar" when replying to advertisements, the progress of the small car movement will be assisted.


[^1]READERS, NOTE.-It assists the small car movement and the advertiser, and ensures you prompt

8 altention, to mention "The Light Car and Cyclecar" in your enquiries

## The fecret of Italian CAR PERFORMANE思

Italian cars are famous the world over for their successes in speed and endurance. This has been proved in every kind of test, including the 6-day trial at Monza, when Silvani on a 10/15 Fiat covered 7,000 miles at 50 miles an hour for 144 consecutive hours. How do they derive the power and pace to keep on mile after mile, hill after hill, hour after hour?

The answer is LUBRICATION. Oleoblitz THREE ARROW Oil is the oil used in Italian car tests. THREE ARROW Oil is constant and consistent-it never varies, because it is always obtained from the same wells.


THREE ARROW Oil gives more power. It reduces to the absolute minimum the destructive effects of carbon on pistons, valves and cylinder heads. Its use saves pounds in repair bills.


THREE ARROW OIL COMPANY, LTD., TRAFALGAR HOUSE, WATERLOO PLACE, LONDON, S.W.1. 'Phone: GERRARD 2495.



# CELLULOID <br> FIRST QUALITY TRANSPARENT 

FOR HOODS, SCREENS, ETC.
Samples and prices on application.
GREENHILL \& SONS. LTD.
Pontifex House, Shoe Lane, LONDON, E.C.4.

## ${ }^{\text {Gapar }}$

SOUND HOSE VALUE. 50 ft . of six-ply five-eighths of an inch hose with couplings : tap union with lug and chain, solid brass variable nozzle (controllable by a turn of the wrist) 47/6 and substantial comp'eto oulfit. hose hanger.
Stocked by
Stocked by
all leading
all leading
agents.


The small advertisement columns of "The Light Car and Cyclecar" form a unique mart for the

## The CURE for RAPID CONSUMPTION



When your car is " eating" petrol, you must first of all look at your carburettcr. Ten to one it is the root of the trouble.
FIT THE " M " TYPE SOLEX and you will at once notice a wonderful improvement.
Not only in miles per galion, but also in power, speed, and hillclimbing powers, there will be more life in your engine.

## 

We will supply a model for your car on 30 days' FREE TRIAL. Write to-day.

# SOLEX ITD 

115 SOUTHWARK STREET LONDON SEI

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| :---: |
|  |  |

## FIit Solex-and note the difference

Yous cans buy your can
better at heourstouno'

Because:

1. We have been established over 30 years and hold direct Agencies with the most important manufacturers in the industry, whose backing goes with every car we sell.
2. Our large stocks and contracts enable you to see the various models when you wish, and obtain delivery when required.
3. We can allow you the highest possible price for your old car in part payment for a new model and arrange delivery
and collection in any part of the country.
4. W'e can arrange an exchange by post as easily as by a call.
5. Our deferred terms are controlled by ourselves and the most reasonable obtainablerates from $2 \frac{1}{2} \%$
6. Our usual stock of new and slightly used models exceeds 100 cars. You will be hard to please if you do not find one to suit you.

Our

Brochure

$B_{12}$
'Phone: RIVERSIDE 3161, 3162. 3163.


May we send your a copy free?
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243.245. HAMMERSMITH ROAD. LONDON, W. 6
will tell you more. LONDON.

ESTABLISHED OVER 30 YEARS.
 advertisements, the progress of the small car maveyclecar" when replying to $\qquad$

## Some Suggestions from our Stock:

SINGER.


10/26 h.p. Saloon, £280

7 h.p. Saloon, £200

## LEA FRANCIS.



12 h.p. 4-seater de luxe, $£ 285$



10/26 h.p. 4-seater de luxe, $£ 225$


9/20 h.p. Super Model, 4-seater with F.W.B.. £225

SWIFT.


10 h.p. 4 -seater with F.W.B., £235

We supply reliable Second-Hand Cars-Full List sent on request.
ANY MAKE SUPPLIED TO ORDER.
AGENCIES INCLUDE : Austin, Clyno, Jowett, Lea Francis, Rover, Singer, Swift, Standard and Wolseley.

The

## COLMORE CUP TRIAL

 -a triumph for the Austin
## 4 GOLD MEDALS and TEAM PRIZE

The Colmore Cup Trial, held on 13th February, consisted of 100 miles of exacting tests, difficult hills and country of colonial severity. Throughout, the Austin Sevens performed with their invariable, unfailing reliability, as the following extracts testify, and gained the above awards.

## From "The Motor."

Severe 100 -mile course. All Austins buzzed merrily away. Buckland Hill-All Austins were good, one driven by J. G. Orford being particularly so. Gipsy Lane-The most outstandingly good performances were made by B. W. Harcourt. J. G. Orford, J. W. Milton, E. G. Bromhead (Austins), etc. Gambles Lane -All Austins were very speedy.

## From "The Autocar."

Colonial roads in the Colmore Cup. So far as the teams were concerned, the Austins and - showed to the best advantage. Buckland Hill -Austin Sevens were conspicuously good. Gipsy Lane-Once more the little Austin Sevens showed their marvellous capacity for getting along anywhere.

From "The Light Car."
A very difficult trial-All Austins did quite well. Buckland Hill-All the Austin Sevens, particularly that driven by J. G. Orford, made splendid and effortless climbs. Gipsy Lane - All the Austins were good.

THE AUSTIN MOTOR CO., LTD., lorgbrdge, braningham. LONDON : 479-483, OXFORD ST., W.I (nr. Marble Arch).

## £149

at Works.


HYDE PARK
INNOVATION.

White lines have been laid down in Hyde Park, London, to assist traffic regulation. On the right of the picture, which is taken just inside the Hyde Park Comer gate. an arrow directs traffic desiring to pass out of the park. The constable is holding up traffic wishing to turn right alongside Rotten Row, so that traffic entering from Hyde Park Comer can cut across and make for the Marble Arch.

## - TIS, NUWSOSTID of the WCEK <br> ON OTHER PAGES

Spreading Infection.
Motorists are warned by a medical oflicur against giving lifts to tramps. He points out that there is every danger of infectious diseases being spread.

Arterial Road Speed Tests.
The Woolwich Motor Cfub is still negotiating for the uso of the new arterinl rond from Silcun to Ruxley for speed trinls. The new road is commeted, but will mot be onened before Easter. Cant. Hioss states that the borough council will allow use of the road. but the loenl police object; the club is now teying another source.

## This Week.

The capabilitics of the absolutely stundard light car are demonstrated very phanly by the article entitled, "Round Surrey in a Clyno." Severe hills were elimbed with comparative easc, and the ear bohaved perfectly throughnut the test. " How the Expert Dors It " is the title of a contribution which explains in simple language how parts such ns special crankshafts, camshafts and so on are made. and how welding is carricel out. "What Inventors Are Doing" and "Removing lisar-wheel Hubs" aro articles whiclu will be read with interest.
No. 693 . Vol. XXVII.

## Cyclecar Comments

A North-Country Scramble Sandiord Cyclecars for 1026 Hardwick Hall, Derbyshire Round Surrey in a Clyno. Reopening of Brooklands Removing Rear-wheel Hubs Rich Misture
Topics of the Day
How the Expert Does it
New Delachable Wheel What Inventors are Doing Motoring Matters in Parlinment Our Readers' Opinions Ideas for Owners

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LIGHTLAG-UP TIMES (Rear Lamps tor Saturday March 8th
London .. .. 6.17 Eidinburgh Nowcagtio ... 6.19 Liverpcol Birmingham 6.23 Bristol

## New Kelvin F'all.

The tender of Messrs. John Traiu and Co., Glasgow, amounting to £207,000, for the construction of a new Kelvin Hall has been approved by the Glasgow Corporation. The exbibition hall will be buitt in thre spans of 100 ft . each and a side span of 60 ft . The building. it is hoped, will be eompleted by the end of October, so that the 1926 Scottish Motor Show can be held in the new building.

Canadian W'ater Power.
Some 719.000 horse-power was added to Canada's hydro-electric installations during the nast year, bringing the total up to $4,290,000$ horse-power.

## Petrol Pumps

The amending Bill, which brings petrol numps within the scope of the Weights aud Measures Act, has been read a second time in the Lords.

The " 200,000 Mark."
The following is an interesting extract from a letter received by Jowett Cars, Ltd:-"It may perbaps interest you to know that I am still running my old Jowett car (which left your works in 1015), the total mileage of which has now pnssed the 200,000 mark, and it is still rumning well."

## Next Week.

A practical solution of the small home garnge problem will form one of our principal features vext week. The existing difficulty of housing a car has been responsible for this novel but practical development which has been tried nut successfully by a well-known light car owner. The 13 h.p. Clyno will be dealt with under the heading, "On the Road and in tire Making."

## Bridge Closed.

The old bridge at Geddington, on the Kettering-Stamford main road, has been elosed for repairs.

## Crossing London.

A now edition of the map of recommended routes into, out of, round and eross London has been issued by the II.A.C. The prices are 2 s . Gd. on paper, 4s. on cloth.

## Boulogne Motor Week.

Translations of the regulations Governing the Boulogne motor mecting will shortls be obtainable from Mr. 1:. J. Jnss, hon. secretary of the Essex Motor Club, 40, Chancers Sane, Loudon, L.C. 1.

## Burford Bridge Popular.

The opening rally of the season of the Junior Car Club takes place tomorrow (Saturday), whilst the 2oth annual opening run of the Motor Cycling Chus will be held on Saturdas, Mareh 20thboth with Burford Lridge Motel as the venue.

## Amilcar Items.

We are advised by Boon and Porter, Ltd.. trat the $7.5 \mathrm{~h} . \mathrm{p}$. model of tho Amilear is now out of production. The 8.3 h.p. model has been redesigned and will be imported only as a chassis and coupe with fall differentid. The standard two-seater Grand Sport $\Delta$ milear is listed at $£ 285$, whilst attractive ndditions to the range are Weymann saloons, which sell at $£ 300$ and $£ 375$ respectively. We hope to publish a test run report concerning one of the lost-named models in the near future.


LIGHT CAR PROVERBS.-No. 10 Does this picture suggest to you an old or original proverb? If so, write if on aposicard No. 10 in the top left-hand corner. A prize of a guinea is offered for the mosi appropriate proverb submitted. If twa or more readers submit the same winning prouerb, the prize will go to the sender of the first to be judged. Only one solution may be submitted by individual competitors. No judging wil' be done before or after next Tuesday. For the winner's name and address see next week's Around the Trade.

## L'Entente Cordiale.

After due deliberation France has decided to come into line with Great Britain with regard to the begiuning and ending dates of Summer Time. The clocks will be put forward on the night of Saturday, April 17th, and back on the night of the first Saturday in October.


MAIN ROAD DIFFICULTIES.
For several weeks traffic using the Dover-Folkestone Road has had to pess through a mile of floods. The heavy rains caused the Drellingore Stream (right), which is situated in the Alcham Valley-between Dover and Folkestone-to overflow, flooding the country road for nearly a mile and then running along fields into the Bushy Ruff Stream at Chilton.

## North Road Diversion.

The (ireat North Road, from two miles north of 1 latfield to the " Red Lion," Digswell, will be elosed for the next three months.

This Season's Fixtures.
Despite thie ban on hith-climbis nad speed wemts, the fixture list for $192(6$ is a very full onc. From February 27 th to September dth it includes no fewer than so items, all to be stazed in this country.

## Still Dangerous.

At the junction of the North Circul:ur rom with the Golders Green-חendon road, A.A. illuminated signposts hatve been erected, but iltuminnted warning sigus 100 yds. away from the crossing. on each side, are still urgently required.

The £ 100 Car.
In our Small Advertisements this week thern is an amouncement of (monsiderable interest to any manufneturer who contemplates building a $£ 100$ ) car. The advertiscr has a design which, he elaims, possesses no frenkish features null is capmble of being produced in large mambers at an extremely low price.

## Brooklands Admission Charges.

The charges for this senson for admission to Brookiands racing track are to be as follow:- B.A.R.C. mectings: l'ublic enclosure, 5 s . per person: paddork, 15is. pere person, both inclusive of tax; cars alongside the track, 10s.: motoreycles nlongside the track, ¿s.: open-air garage for cars, 5 s . ; garage for motoreycles, 2s. The usual charie at motorcycle mectings is 3 s . ner nerson; cars alongside the track, 3 s . ; montoreycles alongside the track, 2 s .
On zon-race days members of tho public may nutain admittance to tho track for 2 s. . thicir ears costing 3s., motoreyeles is. The charge for the use of the track hy menibers of the public, including tho test hill, is 10 s . ner car and 5 s. ner motorcycle nucr day.


WTH ENGLISH $\qquad$ BODYWORK.


The Ministry of Transport's suggested solution of the cyclists "rear lights" problem; but Capt. Brass insists on ruby reflectors. (See paragraph.)
 The latest $10-20 \mathrm{~h} . \mathrm{p}$. two-seatey De Dion-Bouton. Th.e price of this model was reduced recently
from $£ 350$ to $£ 310$.


IAM beginning to think that one of the reasons why cyclecars have lagged behind light cars, from the point of view of nopularity, is that they lack the comfort of their larger risal: but is there ans good reason why this should be so?

Would it add very much to the cost of a cyclecar if it were fitted with spring cushions and squabs, a hood that met the top edge of the screen so as to make a passably weathertight joint, an automatic sercen wiper and up-to-date side screens? What i difference such equipment would make.

There is many a man who is attracted by the mechanical beauties of the cyclecar, its simplicity, ease of handling, liveliness and low upkeep cost, but who shrinks from the physical discomforts whicb are entailed by driving it in bad weather. Looks count for so much in these days of luxury. I would even venture the opinion that a two-cylinder air-cooled two-seater built very much on the lines of the 1921 G.N. would sell in large numbers if only it boasted of that convincing appearance of comfort which would be obtained by equipping it as I have indicated and could be sold for, say, £130-nnd there's the rub!

One of these days motorcars will be taxed in direct proportion to their size and the amount of dawage they do to the ronds. That day will mark a sudden reviral in the popularity of the four-wheeled cyclecar, the tax of which should not exceed that of the threewheeler to-day, namely. £4. Orerhead charges loom so large in the minds of prospective purchasers that they find it a little diflicult to reconcile themselres to the fret that any cyclecar having a tax of $£ 8$ is worth while. Three-wheeled cars continue to flourish because there is a mighty difference between $£ 8$ and $\mathrm{f}=\mathrm{f}$, and the man who is keen on such a cyclecar can look ahead, as it were, and reason beyond the Initial stumbling block of the tax.

B18

I am told that an interesting letter has been received by M. Isaudry de Saunier, the well-known Freuch authority on automobile engineering, from the owner of one of the original 5 h.p. single-cylinder Le Zebre cars. M. Baudry de Saunier founded the Le Zethre concern in 1910, and the first Le Zèbre cars were seen in london in 1912.

The writer of the letter in question is a veteribary surgeon, $M$. Charles Guyon, living at Janville in the Eure-et-Loire. He states that he purchased his car in 1912, and that, apart from the interval of the war vears, during which he served with the French forces, he has had it in daily use ever since.

The total distance covered by the car since its purchase is 09,200 miles. and nothing so far has been replaced in the engine gearbox or rear axle. The two last-mentioned components, indeed, have never even been dismounted for examination.

New ball races have been fitted from time to time to the road wheels, various springs have broken and been replaced, and the steering cross-rod and steering arms have been renewed. That, however, is the sum total of new parts fitted in 14 years of existence and 99,200 miles of cunning. That is, unless one counts the sparking plug. One new plug has been fitted.

Once a year only M. Guyon has lifted the cylinder head to clean out carbon, and once in about every 18 months he cleans the magneto contacts. The carburefter has never been detached from the engine, and, most remarkable of all, the valves have never been touched since the car was delipered in 1912!

To a country doctor or veterinary surgeon the question of economical tiansport is of the first importance, and M. Guyon is satisfled that his little car has solved the problem in his own particular case. It is slow,
he admits, but it gets there, and Hever gives the slightest trouble of any kind. He therefore intends to go on using it until further notice. One would think that the valves will soou need grinding in, but perhaps they will do for another five years or so!

Why, writes M. Guyon, does not someone revive the single-cylinder car on the lines of the old Le Zebre, but fitted with modern comforts, such as a self-starter, electric lighting and so forth. $\Lambda$ s he observes, the country professional man can far more easily economize on his general expenses than ho can increase his yearly income, the sanle of charges for visits not being capable of indefinite expansion. The country padre, doctor or veterinary, in M. Guyon's opinion, does not want speed; he wants simply a chenp and sure means of getting about.

Following so closely ou my remarks last week regarding the A.C. Sociable, I think that the foregoing record of a "one-lunger"s" capabilities lends weight to my opinion that a cyclecar of similar design would ind a ready market to-day. Although I am very fond of a three-wheeler, I feel that the utility car should be a four-wheeler.

The one drawback of the A.C. was its propensity to skid, but wher one became used to the machines thes could be skidded in any desired direction or reversed by slidding with impunity! All the same, as [ remarked before, if the A.C. Sociable is to be revived, I hope that it will be in the four-wheeled form. Then it should enjoy a large popularity.

A colleague, describing a diminutive French cyclecar to me the other day, remarked that when the enzine was started it sounded like" a dyspeptic mosquito calling for bromides." Those who hate the fwostroke secm able to express their bate in remarkably fluent fashion.

A
NORTH-COUNTRY SCRAMBLE.

Pictorial Incidents in the Reliability Trial of the Leeds Motor Club.


With the picturesque title of Druids
Altar Lane, the hill shown above created no little difficulty, principally owing to the surface. H. E. Titlow (Lea-Francis) is seen making the teit of $i$.
(Above) W. S. Canney pilots his Jowett thrcugh Moggington Ford. Note the enthusiasts on the grand stand! (Left) V. G. Wallsgrove (Riley) keeps his fcot down and slithers up Druids' Altar Lane. Despite the severity of the trial the small cars put up really excellent performances, making light of the difficulties they encountered.

## SANDFORD CYCLECARS FOR 1926.

## A SALOON-BODIED MODEI. ADDED TO THE RANGEBRAKE DRUMS INCREASED IN DIAMETER DETAILS OF THE SPORTS MODEL.

Al'luOLiGH not at present represented in this country, Sandford three-wheders are well known in France, and the latest addition to the range of models is the interiordrive salnon, which is shown in the adjoining sketch.
A very light fabric body is mounted on a standard sandford chassis, and in spite of the restricted space available on a three-wheeler, the body is quite comfortable, orwing to the arrangement of the seating also it is so light that the speed of (65 m.p.h. which is guaranted with the ordinary open touring Sandford can still be obtained with the new closent type.


An artist's impression of the new fabric saloon body. It is a revolutionary development in thrce-wheeler practice.
a ball-type central gate change. The change-speed lever is momed directly on top of the gearbox.
At the rear end of the gearbox a short propeller shaft carries the


By means of a knock-out spindle the rear wheel is readily detachable. It rolls out through the slotted tail.

The Sandiord has won a great reputation in France during the past few years as a really fast and sporting cyclecar. At least 20 victories have been won by these machines on road or track since they first became popular in 1923.
The Snndford is made in two types-the ordinary touring model. having a 9 ate c.c. four-eylinder o.h.v. engine, and the sports type, which has an engine with a bore and stroke. of 60 mm . and 9.5 mm . respectirely.

Standard luby engines are fitted, but in both the touring and sports models a special camshaft with high lift cams is fitted.
The Sandiford chassis gives an impression of great strength. It is of quite unusually solid construction for a cyclesar. The frame is made of very heavy-gauge steed tubes, put together with split lugs. No acetylene or other welding process is used in the making of the frame. Transmission is through a dry-plate clutch and short, rigid shaft to the three-speed-and-reverse gearbox, which has B20

drive harough bevels to a countershaft, upon which the driving sprocket for the chain is mounted. The chain itself is on the same substanial lines as the rest of the machine. It is a lenolds roller chain, $\frac{13}{6}$ in. wide on the rollers. The chain runs comparatively slowly nnd, should it become slack, its weight assists in leeping it from jumping the teeth of
the sprockets. As a result of fitting such a heavy chain, Messis. Sandford state that out of all the machines delirered to the mublic during the past four years, they have never yet heard of a broken chaim. The gear ratio betwen the sprockets on the countershaft and reitr wheel is $1 \frac{1}{2}$ to 1.

The rear forks are composed of heary-section stcel stampings, and the rear suspension arrangement is distinctly good. Lang semi cantilever springs extend from the top side members of the frame neally to the ends of the forks, which are hinged to short, tubular steel connecting rods extending upwards from the

The front view of the sports model is very striking. Close - up mudguards are used.
rear wheel forms the subject of a special patent. The wheels, which are interchangeable, front and rear, are of the standard Michelin fourbolt type, either pressed-steel or wire
vantage of preventing the transmission of shocks with a resultant jumping of the brake pedal, which sometimes occurs when a rigid rod is used.


With its outside exhaust pipe and streamlined body, the sports model Sandford gives a distinct impression of speed. The steel disc wheels are detachable and interchangeable.
to choice exactly as fitted to a number of small cars.

The operation of removing and rehacing the rear wheel is very simple. The nut on the end of the spindle is first removed and the spindle drawn out. The four muts on the wheel, which is bolted up to $n$ flange on the hub, are next unscrewed with a Horce, and the wheel can then be rolled backwards through the tail of lhe body, a space in which is left open for this purpose.

The front suspension is by means of very stout square-section helical springs with smaller helical springs beneath the stub axles. Braking alrangements are on uj-to-date lines. The front-wheel brakes are brought into action by horizontal cross-shafts, and as the operating cams are located near the rear edge of the drums, the cross-shafts are made telescopic in order to allow for the turning movement of the wheels in steering. Very large brake drums are now fitted, their ditmeter having been nearly doubled in the latest 1926 models.

The front wings are of the " closeup " trpe attached to the iralie dust covers and turning with the wheels. The rear bralie consists of a fabriclined contracting band operating on a very large drum attached to the hub. This brake is foot-operated, the control from the pedal being by means of a stout enclosed cable similar to the Bowden design.

This form of control has the ad-

Further details of the chassis include thermo-siphon cooling to engine and Tecalemit lubrication throughout the chassis. The wheclbase is
speed for the touring model is 65 m.p.h. and for the sports model 80 m.p.h.

There is no doubt whatever as to the car being a fast one. We made a short trial of the new interior-drive saloon model in the neighbourhood of Paris the other day, and even in this form the machine did well over 60 m.p.h. and apparently still had some power to spare. A fuel consumption of about 42 m.p.g. is claimed for the standard model Sandford. Electric lighting and starting are fitted to all models at a small extra charge. The prices in Paris of the three Sandford models are as follow:-

Open touring lype, 14,000 francs.
Sports type, 16,000 francs.
Saloon type, 20,000 franes, including lighting and starting.
At the present exchange rates it will be seen that the standard touring model sells for just over $£ 100$, whilst the saloon model will cost about $£ 150$.


The front-wheel brakes are operated through a telescopic sleeve and a universal joint. The drums are of large dameter.

8 ft ., track 4 ft .6 ins., and overall length 11 ft .8 ins., whilst the chassis weight is $5 \frac{2}{2}$ cwt. The guaranteed

French cyclecar enthusiasts have a distinct fondness for the threewheeled type of vehicle, which, to suit the national temperanent, must be fast and of sporting appearance. Owing to the pot-holed roads and pavé of France, designers liare found it necessary to pay special atteution to suspension problems.

In the case of the Sandford, however, it would appear that, by combining the rear fork hinges with the shock-absorber friction discs, an ingenious and simple solution has been found. The readily detachable wheels are another commendable feature of the layout. The use of clamped lugs in place of welding or brazing is interesting, and should be very convenient when, perhaps as the result of an accident, new frame members become necessary.

The Paris address of the manufacturers is Messrs. Sandford, 62, Avenue des Ternes, Paris.

## D'YRSAN DEVELOPMENTS.

AD'YRSAN four-wheeler is shortly to be introduced. 'The new model will be generally similar to the threewheeler d'risan, but will hare a conrentional type of banjo rear axle, litted with a standard type differential.
The engine will be a 1.096 c.c. fourcylinder o.h.v. liuby, and the car will have four-wheel brakes and front springing similar to that of the
dYrsan three-wheclers. Special fittings are to be incorporated which will cnable Hartford shock absorbers 10 be secured to the front and rear suspension.

These shock absorbers will be standard fittings, as tests have shown that they give rery good suspension and that the road-holding qualities are improved.

It is proposed to enter the car for
competition erents during the season in order to test it thoroughly, and it will be shown at the next Olympia Mocor Show.

The manufacturers wish it to be clearly understood that the now fourwheeler model is by no means intended to replace the threc-wheeler; it will be sold as an entirely separate model at a price fired provisionally at $£ 240$.

B21

A MANSION WHERE MARY, OUEEN OF SCOTS IS SAII TO HAVE SPENT SOME OF HER LIFE.



HARDWICK HAYL, Derbyshire, a photograph of which appears in the heading of this article. is well worth a risit by motorists passing through the neighbourhood. It is, perhaps, best approached from the Manstiedd-Chestertield road, the motorist on arriving at Glapwell laking the turn to Rowthorne village, a short distance beyond which is the lodge gate, the road then leading through a beautiful old park to the house itself.

The hall is one of the mans places that owe their origin to that wonderful builder of magniticent houses, Elizabeth Countess of Shrewsbury, and is a lasting memorial to a woman who impressed her remarkable personality upon her own and succeeding generations.
The mansion is a stately pile, standing prominently on a wouled eminence. with a wide sweep of parkland and a glittering lake lying at the foot. It is particularly noticeable by its many big windows, which have been responsible for the couplet:-

> "Harlwick Hall,
> More glass than wall."

On the batlements can be seen the letters " r.s." in stonework, the initials of the great lady who built the mansion over three centuries ago.

A very interesting story is told about the building of this beautiful mansion which throws some light on the eagerness of the countess for building such immense places. It is said that a gipsy once told her that she


[^2]would never die so long as she combinued lmitding. Thus, no sooner was one huge mansion compleded than the building of another was begum. Lins of IBarlwick, as she was callerd, kept piling stone on stome, hut events were too strong even for that :trong-willen linly. Before Jardwick Hall was quite finisherd a sjell of very severe wintry weather, which put at sup to all work upon it, was experienced, and the anterprising old countess died before operations could lie recommanced.
The building is of striking architecture, and on first viewing it one is immediately impressed by the ahilities of the person who designed it. The interior is no less interesting. One is shown some beatiful tapestries, supposed to be the work of Mary, (2ucell of Scots. This unhappy lady, by order of Queen Elizabeth, was under the guardianship of the Earl of Shrewsbury and his wife, and was virtually a prisoner. It is therefore very probable that the ill-fated queen was incarcerated at Hardwick Hall at intervals, and this is botne out by local tradition.

## Picturesque OId Ruins.

The interior may be viewed on mayment of 1 s ., the tickets being obtainable at the lodge which stands near the ruins of the great hall. These ruins, by the way, are rery beantiful, but are unsafe, and the visitor is forbidden to walk beneath the crumbling walls. Roth the ruins and the Countess of Shrewshury's mansion speak elorguently of the magnificent work of the old time builders.

The hall is surrounded by a fine deer park. This ancient park, with its hoary old gaks, its untilled soil and its wide spaces, is an "islet of the olden time." Romance seeus written upon the tall trees that spread their withered arms overhead, as though pronouncing a blessing unon those who scel briel sanctuary there from the bustle of the present. day.

Much wild life is to be noted. Jackdaws there are in plenty among the old trees. No matter when one passes through the park their cries are to be hearcl. On a summer evening, in company with the swifts, scores of daws circle above the ancient ruins of the old hall or flit about the grey walls and roofless cham bers.

Below the eminence on which the ohl hall stands is the Great Iond, with its water-lilies and wildfuwl, and some two hundred yards below is another sheat of water. Between these two small lakes au ancient slone-built "stew;" with wate: running through it, is still in excellent preservation. In former times, before sea-fish were so easily obtainable, the ponds were regularly netted for carp, tench, perch and the like, and these were kept in the "stew " and fed until required for the table.

One can, indeed, pass many a pleasant hour exploring this picturesque park, roaming over ground where, in all probability, the ill fated Mary, oueen of Scols paced so many years ago. This ancient pare is a little piece of old Eugland-a place of meurories. A.S.


COLONLAL
The 11 h.p. Clyno Royal four-seater is not deterred by even the roughest and steepest tracks. (1) Climbing GOING. the steepest portion of Leith Hill. (2) Plugging through the mud on the approach to the same bill. (3) On the ascent of White Downs. (4) Following a cart track in search of freak gradients.

ACAR which has become extraordinarily popular in a very short time, the $11 \mathrm{~h} . \mathrm{p}$. Clyno, is astoundingly good value for money, and each year since its introduction it has been waterially improved.
We haci an opportunity recently of taking out one of the latest Royal four-seaters, which cost $\mathfrak{f 2 1 5}$, and which differ from the $£ 190$ four-seaters in that the bodywork is better, they have three doors, all-leather upholstery and detail finish of a particularly high order.
'Ithe car, which wats loaned to us by Rootes, Ltd., $1+1$, New Rond Street-the Clyno export and Home Counties agents-Was an ordinary demonstration model, which had covered several thousand miles, and which was not specially tuned in any way. Nevertheless, we were more than delighted with its performance, and should
huve been glad of the opportunity to keep it for several days in order to prepare a compreheusive road-test report.

As it was, however, we were able to drive the car from London into Surrey and there to attack perhaps the worst freak hill in the Home Counties-we refer to Leith Hill. This was included in the Grand Cup trial last year and in the Mellano Cup trial the previous year, and prosed itself on those eccasions to be 100 much for several specially tuned competition cars; but, rather to our astonishment, the $11 \mathrm{~h} . \mathrm{p}$. Clyno pulled strougly to within a few yards of the summit, when wheel-spin set in and it came to a standstill. On a second attempt it breasted the summit successfully with the aid of non-skid chains on the rear wheels.

From the top of Leith Hill the car was taken to White Downs, which is considered to be quite a for midable test hill. With two um the Clymo made its way to the top with a gear to spare throughout and with the speetometer needle never lower than the 1 '2 m.p.h. mark.

Yery much impressed with the hehaviour of the Clyno on hills, we then took it to a quiet stretel: of moin rond to ascertain its paces, and found it capable of $4 \overline{5} \mathrm{~m} . \mathrm{p} . \mathrm{h}$. in top gear and $25 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. in second gear. These in each case were the maximum speeds attainable, the best speeds before a rather worryiag engine period asserted itself being 40 m.p.h. and $20 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. respectively.

On checking the gear ratios we found them to be: tol 4.55 , second 8.5 and bottom 15.7 to 1 . The speed on second gear and the romarkably good hill-climbing of the car are, therefore, both particularlg praiseworthy.

So far as the general running was concerned we could fund nothing of which to complain. The driver's seat, which is adjusiable, proved very comfortable indeed; the back seat is also large and provides ample legroom, whilst the springing by quarter-ellipties at the back and half-elliptics at the front is supple, yet permits the car to hold the road extremely well.

A feature of this car which is almost unigue is that on a bitterly cold day, with the hood lowered and only two forward side curtains in place, the front-seat pas sengers are almost entirely isolated from draughts, this being due presumably to the fact that the sloping windscreen is mounted well back; the lines of the scuttle and the slope of the ghass screen also, no doubt, play their part in preventing draughts.

Another feature of the car which was pasticularly attractive was the manger in which it "handled." The controls of the latest Clyno leave very litile to be desired.

Steering is as light and free as one coull wish, even when the car is almost stationary. (iear changing is so simple that an absolute begimaer could acquire the knack in ten minutes, whilst the chutch is uclighlfully light and provides a sweet pick-up, cintirely free from snatchiness or jerks.

The braking arratngements are rather novel in that there are much larger drums on the front wheels than on the rear, and this arrangement gives a rery bowerful retarding effort, with a conspicuous freedom from any tendency to slad. The design is exelusively that of the Clyno Engineering Co. (1!222), Tat. The hand brake operates shoes of its own in the frums on the back wheels, and. like the gear lever, has right-hand control.

The brake pedal leverage has been nlatued in such a manner that rather a long travel is neculed to bring the front-wheel brakes into operation, lout this is compensated for by the fact that very little mressure is needed to secure an unusually rapin stop.

Our impressions after our brief experience with the car were that no need exists to male foll excuses for it on account of its low price, for it (an liear compari son with cars costing very muct more and appears, indeed, to be a particularly desirable little vehicle.

We hope in the near future to have an (mblortunity for subjecting one of these $11 \mathrm{~h} . \mathrm{l}$. models to a more extended test.

## NOT "READY TO DRIVE AWAY."

TIIOSE whose motoring experiences began in the early days will recollect that there flourished in considerable numbers a class of dealer whose methods can hardly be described as wholly honest. About 1908 one of these gentry advertised for sale a secondhand "Dash" light car " with coupe body in good condition.

In due course a buyer appeared of the type which is regarded as fair game by all those who are dishonestly inclined. He was shown the car, and much stress was laid upon its beautiful bods. So eloquent, in fact, did the dealer wax that without more ado the "victim" signed his cheque and arranged to collect the car next day.

At the appointed time he arrived, and was met by the dealer.
"Goorl afternoon," said the buyer. "I've called to collect my car."
"Righto! Have jou got a horse or something with you?"
"A horse? No! Why should I want a horse?"
"To tow the car away with."
" But I'm going to drive it away, aren't I?"
"I shouldn't think so: lhere's no engine in it!"
"No engine! Why didn't you say so when I bought the car""
"Why should I? You didn't trouble to lift the bonnet, and if you took an engine for granted it is no fault of mine."
"Then I want my money back or I shall summons you for misrepresentation."
"You won't get your money back and you can't summons me. I advertised a "second-hand "I asl" with coupe borly in good condition.' I did not say the car was complete or in going order; the fuestion of condition referred only to the body. You had every opportunits to examine everything, but you just sat in the car and said you'd buy it."

How long the argument continued history does not relate, but, obviously, the buyer had a case agailus the dealer, although if the court had disallowed his claim he could hardly have been surprised.

Fortunately, dealers of this class are now practically extinct, but lest one slould still be lurking in some olsscure garage, it behoves the prospective buycr of a second-hand cal to be careful not to fall into his clutches.

Aglance through the advertisemen: pages of 'The Light Car and Cyclecar" will show where the genuine dealers are to be found. Special care is taleen to ensure that the advertisements only of reputable traders are included -Ed.

## MUST CARS HAVE NAMES?

IT' is a commonly accented fact that every motorcar should have either the name of the firm who built it or a name invented by the firm embla\%onel on the machine in a mast prominent position.

Is not this rather a curious custom, as a car is regarded by the majority of men as part of their private belongings, and men usually aroid anything which is even remotely in the nature of advertisement respecting most of their effects?

If the idea were carried out rogarding our other belongings, we should, in all probability, be greatly日24
amosed. For instance, would Brown appreciate the fact that the front of his new hungalow was nermanently labelled "Unit construction" or that the firm considered the place to be "The Iinky Cot "? Would Jones be proud to think that in the middle and front of his brand-uew overcont was an insertion stating that it was "The Cute Coat" by "Taylors the Tailors"? Would collars be beautified by a stripe which consisted of a series of minute names of the makers of the collars?

One hopes that the idea, which was originated by motor manufacturers, will be restristed and not allowerl to invade the set fashions of man. A.f.

## REOPENING

 BROOKLANDS．SEVERAL IMPROVP． MENTS FOR NEXI SEASON－IBETIER VIEW FOR S！RC． リATORS．

（Above）The finishing straight skowing the new embankmeat in the public enclosure．（Left） Large areas of the track have been renewed．Here is a＂patch＂ on the members＇banking with its straw covering still in position．
the course，as they have done in the past． The track has suffered somewhat from the effects of frost and water during the winter，and the work of the repairers has，

BROOKLANDS racing track，Weylmidge，Surrey， will be opened again on Monday next．For the past few months a large gang of workmen has been lusy repairing the surface of the track itself，whilst a separate gang has been carrying out a noteworthy improvement from the point of view of the spectator．

This takes the form of $16-\mathrm{ft}$ ．wide bauks，butting up to the railings on each side of the finishing straight and level with the track itself at their inner edges．Each bank slopes up slightly，however，so as to enable spec－ fators six or eight deep to obtain a good view．Pre－ viously，it will be remembered，the levels of both the public and members＇enclosures on each side of the finishing straight were much lower than the track；only the front row of spectators were able to see anything， and even then it was often necassary to hold on to the jailings so as to maintain one＇s balance．

A considerable amome of labour has been involved in the formation of these banks，for the earth has had to be excavated from a quarry near the public entrance to the grounds and carted across the public enclosure．

Sandbanks，similat to those employed in the J．C．C． 200 －Mile Race，are to be arranged inside the railings on the track itself，each bank being of considerable length and acting as a safety barrier for the bencfit of both spectators and drivers．

Why，it may be asked，is so much trouble being taken to improve the view of the spectators down the finishing straight，when this part of the track is falling more and more into disuse？The answer is that although the tinishing straight will not enter largely into the pro－ grammes of ordinary handicap race mectings，it will nlay a very large part in the Ii．A．C．Grand I＇rix on August 2nd，and，of course，in the Junior Car Club＇s 200 －Mile Race on September $2 ⿹ 𠃌 灬 t h$ ．Presumably，the slower handicap races will also finish in this part of consequently，been greatly hiudered．By

Monday next，however，the straw coverings over the newly concreted sections will have been removed，the railings down the binishing straight reerected，the new spectators＇banks rolled，if not actually sown，and the whole track will present a spick－and－span appearance in preparation for a busy season．

It is posssible that a slight alteration in the rules governing the actions of those taking part in track races will be effected in the near future－that is，if the wishes of several of the drivers of really fast cars are entertained．

It has been evident that comparatively slow cars have been travelling far too high up the banking and， on several occasions，the fastest cars have had to approach dangerously close to the top edge to pass them．We took the trouble last year to measure the distance from the ton edge of the home banking of a wheel mark made by Mr．J．G．P．Thomas＇s I．eyland－ Thomas，and found it to be two inches！This mark，by the way，is still plainly visible．

The suggestion is that a new line should be painted on the concrete round the bankings at least 10 ft ．below the top edge and that no driver should be permitted to rise above this mark unless he wished to pass another competitor．It is interesting to observe that little diffi－ culty would be experienced in keeping below this mark， even on the mart of those＂aces＂whose speeds around the bankiug may be anything between 120－130 miles an hour．
There is no oficial meeting on Monday next at Brook－ lands－it will be merely a private view day．The first event will be the British Motorcycle Racing Clubss fix－ ture on March 2nth，whilst the first big car meating of the vear is fixed for Faster Monday，April 5th．The prices of admission to the track are given in a news naragraph in this issuc．


Everyone who has tried to gain access to the brake shoes of a car will know that removing the drums is a by-no-means simple task unless the proper tools are available. The writer of this article describes the difficulties of the jisb and the special tools which are needed.

AT this time of the year we receive a very large number of inquiries from readers who have decided 11 to overhaul their brakes in readiness for the coming season but who have found that gaining access to them is anything but eass.
The dificulty which they find is that the brake drums are often extraordinarily hard to remove from the axle shafts: the reason for this is because it is absolutely essential that they should be very securely attached to them, in view of the fact that the method of fixing must bear the whole of the driving force of the engine and some braking stresses in addition. Of course. it would be quite casy to inx the back wheel hubs on to the axle shafts by having a square shaft end, which would positively prevent the wheel from turning on the shaft, but squares are never successful, as rust is bound to get in and create looseness and consequent backlasl.

Apart, however, from the question of the formation of rust, a square, however well fitterl in the first place, alwars becomes loose in the long run, and. once loose, there is no way of tightening it.
Splines, it might be thought, offer attractive means for preventing the hubs from turning on the shafts. but the trouble with them is that the shaft diameter is rather small for serviceable splines to be formed, whilst the cost of machining is rather heary and wear cannot be taken up.
The only practical fixing, therefore, is to have a lapered shaft, a tapered hub and a long key to help the laper to take the drive. Acthally, of course, if the taper be long and cut at a suitable angle, there is no strict need for a key, as the binding action of the taper is sufficient to transwit a considerable amount of power, but a key makes security doubly secure and, consequently, figures in this assembly on every light car.

## Advantages of a Taper

Not the lease attractive feature of a key and taper fixing is that if it is carelessly left slack and wear thus allowed to develop, this wear can be quite simply taken uip by merely tightening the nut on the end of the axle shaft and pulling the hat more firmly down upon the taper.

Having shown some of the advantages of a taper fixing. we now come to the owner-driver's bughear of separating the joint once it has been made. There is only one way of doing this successfully and that is to amploy some form of tool which tends in pull the two faces apart and which provides for a heavy hammer blow to be given to the shaft whilst the pull is being exerted.

In cases where ordinary screw-on hul caps are used the best type of tool for exerting the necessary pull on the taper is a special domed eap, which can be screwed on to the hub boss in place of the hub cap and which has a centre bolt arranged so that it may be serewed hard up against the end of the axle shaft

The procedure with a tool of this kind is first to remove the ordinary hub cap, then take out the split pin and undo the big castellated nut on the end of the axle shaft. Having effected these breliminaries, the pulling tool is screwed on, the centre bolt tightened with a fairly large spanner, and then giveu a hard blow on the top of its hexagon head with the heaviest hammer available. The shock of this blow will be found to separate the two faces of the taper in an extremely effective manner, even when the hub has been in place for many years.
lomed pullers of the type described are nearly always available from the car mannfacturers, the price varying between 5 s. and 10 s

## When There is no Thread

It is not every car, however, which has screw on hub caps, and where these do not figure in the specification a form of puller is needed which can be fitted under the studs which hold the road wheal in place unon the hub. Pullers of this kind act in exactly the same way as the domed variety, and also, of course, have a centre bolt for tightening down on the shaft.

The provincial repair man, who naturally cannol. arrange to stock a special type of wheel puller for every make of car which is likely to come into his premises, has to pay about $£ 5$ for a whee puller capable of dealing with any make of car. This type of puller consists of a bridge piece through which the centre bolt passes, and a wide selection of claw-shaped arms which can be hooked behind a boss, if any, on the hub) shell or behind the rims of the brake drums. If the par ticular design does not lend stself to either of these plans, a whed puller of the type undpr discussion can be arranged to exert a very powerful effort on the wheelholding studs if some form of rough ring is first made up for the purpose.

Readers who own wheel pulters of this or any similar type should bear in mind that it is very important to make sure that there is a good, deep centre hole on the axle shaft or the centre bolt of the puller may slip of when it is screwed hard down and score the threads on the shaft.

Perhaps the best known of the universal wheel pullers is the Millennium, which is marketed at prices
ranging from f1 7s. Gd. for a comparatively simple tool to over $\ell \overline{\text { for }}$ for larger model with a wide selection of puller arms.

A rather chater lype of wheel puller which also may be employed on almost any malie of cre is the Jradbury; this has arms on which are mounted pieces of roller chain which are readily adjustable for lengtl. On the extremities of the two chains are hardened steel claws which are calculated to obtain an excellent grip. f2 85. is charged for one of these pullers in a fairly small size, and £4 for a larger model capable of dealing with very big wheels.
A question sometimes aslied is how may a man proceed when it is essential for access to be gained to a rear-wheel brake, but no wheel puller is arailable nor likely to be available for some considerable time? All that may then be clone is to devise some plan for making use of the jack as a puller, but this is not always casy, and there is a risk, in addition, of pulling a road wheel out of truth.
'The conventional way of using a jack for pulling of a whed is to place the base of the jack against the end of tho axie shaft and pass a lope around the wheel
spokes and orer the top of the jack. The jack, which is held in a horizontal position by an assistant, is then oxtended and will waturally exert a very big effort. On many cars, however, either the wheels have no spokes ol they cannot be held conveniently upon the hub shell when the hub cap has been removed.

When this is the case it may be possible to devise some form of abutment for the jack with the aid of some very big tyre levers or old spring leaves placed behind the brake drums, but much the best plan, if it is possible to do so, is to watit until the aid of a proper wheel puller can be obtained.

An altermative method of removing a rear wheel without using a wheel puller is first to undo the central castellated nut holding the hub to the axle shaft and then $t o$ get an assistant slowly to turn the wheel whilst heavy blows are given to the rim of it with a baulk of timber. This, of course, is rather drastic treatment, but will often prove effective in an emergency.

When refitting a hub after it has been renoved, make sure that the nut does not beai on the shoulder of the axle ends. Washers bored large enough to surround the shaft will be needed if it does.


Some serviceabie types of wheel paller. (1) The Bradbury chain arm type. (2 and 3) Two well-known Millennium models. The type shown (3) is suitable for a wide range of uses. (4) The Endolite puller, which is useful also for drawing sprockets and pulleys. (5) A puller of the type which is generally suitable for only one make of car. (6) A powerful Apco puller for cars with wood-spole wheels. In the centre is shown a method of removing a wheel with the aid of a jack.


## A Mode of Expression.

AMOTORING dentist had had his car very satisfactorily ovel hauled by a mechanic, whose teetb, obviously, needed attention. Said the dentist: "You seem to have made a very good job of my car; l'm sure I shall have some enjoyable runs in it, and if you care to look in at my surgery at ans time I'll run over sour mouth for nothing." The mechanic is still uncertain about it !

## Peculiarities of Shock Absorbers.

ONE of my colleagues has discovered a peculith and somewhat disconcerting trait in connection with the shock absorbers fitted to his car. He first noticed it after he had tightened them up all round and was taking the car for a test run. lounding a bend the body of the car heeled over slightly, as anticipated, but did not swing bate to an even keel when the front wheels were straightened up. The road was dead smooth for a short distance, then it became uneven, and it was not until the wheels " hammered" slightly that the body gradually righted stself.

## Guarding Against Punctures.

MOTORISTS will probably be up in arms if I suggest that they have only themselves to blame for quite half the tyre trouble they experience. It is because I am, quite frankiy, one of the guilty ones that I have the temerity to air the view. Again and again I read that "tyres should be gome over periodically, small flints being remowed and the gashes properly stopped," yet I iguore this excellent advice. Slightly consciencesmitten. I decided, a day or two ago, to remedy the omission. My "bag" included a matter of four (lozen flints of varying sizes, one or two resembling sharp-pointed instruments about $\frac{1}{4}-\mathrm{in}$. long that wight have been handed down from the Stone Age, and any one of which was the potential source of a puncture. In several cases I had to dig deeply into the cover to extract the flint.

## Why Not Candles?

IHAVE often thought that there would be a large demand for cheap candle lamps designed for emergency use if some concern were to place them on the murket. Sets of oil lamps for this purpose can be obtained, but are comparatively expensive and have the disadrantage that they must be kept upright and conseduently occups a fair amount of space.

A couple of cathde lamp-one for the ofi side, one for the dail-could. however, be stowed in some ond corner of the tool locker, where dhey woukd be out of the way until reduired. spectal hracket: would, of course, have to be titted, but these need not he obtrusive. I should imagine that (won lampes of this type, together with fittings. conuld he retailed ior bis. or is.-a price which mohody could grudge in view of the security from lighting worries they would give.

## Kick a la Main

SNCE the age of motoring beyan the lrench angurge has been enriched by the incormation of many foreign terms. Amongst them is the expression kick-starter, a term for which here exists no French equivalent. The expression is, howerer, in these days contracted into " in kick."

I was examining a curious little French cyclecat last summer ; a machine of the one-small-tog-nower variety, and could see no apparent means of stariing up the engine, which was hidden snugly away somewhere under the seats. Interrogating the proprietor with regard to the method of starting it, he replied with alacrity, "Mais, avec un kick a bat main, Monsieur"! In other words, with a hand kick-starter. This proved to be the case, for a neat little pull-up lever was fitted within comfortable reach of the driver's hand. The expression "un kick a la main" rleserves to be placed on record.

## Deep Breathing

AFRIEND once told me that at the end of a long run, far from feeling the exhilaration that many profess to derive from motoring, he experienced a sense of depression that only a brisk walk conld dispel. A neighbour who recently bought his first car has made a similar confession.

I discussed this with a medical friend, who expressed the view that these people drive in a state of nervous tension. In tense moments we "hold our breath ": these drivers are more or less holding their breath all the time they are at the wheel. They probably do so not merely when driving a car but also when engaged in any task requiring close attention. and the remedy is to practise deep breathing regularly until it becomes a habit.

I recalled this conversation the other day when I alighted from a car and fount myself drawing a deep breath of relief. The car was a strange one, the coatrols were arranged differently from
those on the car I had lately been using, the driving position was not comfortable, and the brakes badly needed adjustment.

## The " Good Old Days."

TURNING over some ancient papers recently I came across an interesting relic of the past in the shape of a double-page picture taken from the The Graphic dated May 7th, 1881. The original reproduction is just under 20 inches in breadth, and is in example of a really fine woodeut. The greatly reduced reproduction given here hardly does justice to the drawing, but the main interest centres in the historic association with road travel in the past which it conjures up.

## Hopes Revived.

Aarticle in the same issue of G'raphic deals eloquently With "The Opening of the Coaching Season," and describes a start from the " White Horse" Cellar, l'iceadilly-the scene of the sketch. The writer describes how, long before the reviral, George Steuhenson's hated "tea kettle" finally drove the oll coaches of the road when the opportunities for a younger generation of amateurs to learn the ancient art of coaching were very much restricted. lle tells of the struggle to keep pace with the "steam pot." "Some of the old conches," he says, "would often attain a speed of 14 miles an hour as if to challenge the flying train itself," but the struggle was in vain. The revival in coaching came at last, however, in the year 1S71, and was at the leeight of its popularity when the article under (liscussion appeared in The Graphic. Little did that writer imagine that only a couple of decades or so would elapse before the coach would be threatened with something far more formidable even than Stephenson's "tea kettle."

Some idea of the cost of the plant necessary for making all-steel bodies was given to me the other day when I learned that the dies, alone for pressing the various panels used in the bodywork of a popular four-seater cost no less than $£ 3,000$. In this particular instance the pressings were used merely to cover the wooden skeleton and the body had no pressed-steel framework of the kind used in the Citrnen.


## BUILT AT

 SLOUGH.The latest Citroen 11.4 h.p. touring car with all-stcel bcdy. It strikes a new note in light car construction.

## Eighteen Miles Per Hour.

RECENTLI I had as one oi my passengers in a Cour-seater an exceedingly nervous lady for whose sake I had been asked to go slowly. My normal touring speed is perhaps a trifle above the average, although I cherish the secret hope that in maintaining this speed I never alarm my passengers or other road-users. But on this occasion it soon became clear that the legal 20 must ve absolutely my limit if I wanted to be kind, so I settled down to a sober 18 , reserving the limit for hectic moments when we passed the local milk-cart.

Driving on the open road at 18 miles an hour is not, I discovered, quite so casy as it sounds, unless one is used to it. I wondered whether the engine was pulling as it should; I was not too sure of the

## All-steel Bodies.

AIHOTOGRAPH on this nage shows one of the new Citroen touring cars with in all-steel body, and I think readers will agree that quite a pleasing appearance is ohtained. The principal adrantage of all-stcel construction is that, strength for strength, it is cheaper when built in large mumbers than coachbuilding, whilst once the necessary plant for the manufacture of botlies of this kind has been installed, production can proceed at a very rapid rate.

All-steel bodies, of course, have many adrantages over the old type with a wood frame covered with metal panels, but they possess the drawbek that in the event of a bad acciclent it is very diflicult for local coachbuilders to effect repair: at an cconomical nrice.


right moment to change down on hills, and more than once I found myself in two minds as to whether I could overtake before a bent.

## New Characters for Dramatists.

I$T$ ' $T$ is only natural that novelists and dramatists Should automatically, as it were, alisorb new characters into their works. but what a lot of jobs are being found in books ant plays for chauffeurs ! Seldom is he the villain of the piece, one is thankful to note; more often he is the inmocent victim of circumstances as in " 0.45 ," the " thriller" which is drawing huge crowds to the Comedy Theatre.

## Conflicting Opinions.

TTHE other day I took out a man in a car which I was testing, and from first to last he was loud in its praises. Later, on the same day, I had a different passenger who reserved his judgment for a few miles and then declared that the car was "the most perfectly foul contraption" in which he had ever ridden. My first passenger had never owned a car, whilst my second was a seasoned connoisseur, who placed efliciencs, acceleration and sweet running before everything. The downy cushions-the car had a saloon body-the silk blinds. the "soft" suspension and the thickly carpeted tloor left him cold. He said the engine was rough, the gearbox noisy, the acceleration noor and the rolling on corners nothing short of appalling. I quite agreed with him.

## Performance All-important.

T1H1: experience narrated in the preceding paragraph shows how hopeless it is for any manufacturer to try to make a universal appeal. The only feasible plan to-day is to concentrate either upon meeting the requirements of the newcomer to motoring or unon satisfying the tastes of the more discriminating type of buyer who can be impressed farourably only by a really sound nerformance.

Just now the feeling is that money is more easily made by producing cars with a good "showroom performance" than by concentrating upon mechanical refinement, but I believe myself that
that it pays best to place performance first. lefore long there will be thousands of users of mass-produced cars who will be in the market for something better, and who will have learmed that showroom selling points are little use in practice either for increasing the pleasure they derive from the ownership of their cars or for keeping their motoring bills within reasonable bounds.

## Easy Terms.

TT is quite easy nowadays to acquire a car withi. out laying ready money for it. "If you don't wish to disturb capital, sir . . . " is the sales man's tactful way of suggesting deferred payments. The implication is that you have, of course, plenty of money with which to buy cars, but that you do not want to realize securities. Whether that is your happy position or not, the banks and finance companies have made it easy for the dealer to extend credit facilitifs 10 suitable buyers.

In America the easy-payment system has reached almost incredible proportions. It is stated that cars to the value of $£ 450,000,000$ (nol dollars), or threc-quarters of the total output of the country's factories, were disposed of in the States last year on deferred terms. These ligures have begun to cause alarm, and credit facilities of this type are for a time to be restricted. Individuals in this country do not incur debt quite so light-heartedly as the Americans appear to do, although even here the proportion of creclit transactions to cash sales in the automobile industry is growing to very large proportions. In Englani, I am told by a leading agent, most cars solil on deferred terms are second-hand models priced at $£ 100$ and thereabouts.



A Dangerous Coinmodity.

TWHE old saying to the effect that familarity breeds contempt is particuJarly true in the case of motorists and petrol. When at man buys his first car he bery rightly handles the fued with respect. He appreciates that it is a highly explosive commodity; he takes bery great lains never to expose a maked lishat in proximity to the petrol tank ur carburetter, and he does not fill the petrol tank withwht first observing the wwious mrecautions. Later, however, he is indined to become less cautious. He may fill the tank will a lighted cigarette in his month and allow at friend to strike matches at the same time, whilst it is by no means an uncommon sight to sce a man looking under the boonet at night with the aid of a lighted match. There are, in fact, cases on record of motor drivers actually lighting a match to look into a petrol tank to ascertain the level.

It is only human to do these foolish things and we think that it is an opportune time to issue a special warning to the effect that all motor spirit is very highly inllammable and can, if haudled carelessly, be extremely dangerous. Another point which needs emphasizing is that leaky petrol tanks and piping, in addition to being wasteful, create a serious risk of fire; those who have cars which are not faultless in this respect would be well advised to have the defects remedied. Accidents always happen when they are least expected.

## The Price of Petrol.

THE increase of $1 \mathbf{d}$. per gallon in the price of the principal brands of motor spirit, which was imposed last week, came somewhat unexpectedly and differs from previous price fluctuations in that the increase was only a very small amount. In the past it has been the policy of the suppliers to vary their prices by $2 d$. or 3 d . per gallon at a time, and the effect of this was, as The Light Car and Cyclecar has pointed out, vers harmful indeed. It gave prospective motorists the impression that there was no limit to the price to which motor spirit might go, and it frightened existing car owners into selling their vehicles in the belief that if one increase of, say, 3d. per gallon was tolerated, further inereases might be made which would cause motoring to become so expensive that the cherpest types of car would become unsaleable.


## Topics of the Day



Whilst regretting the recent increase in petrol prices we are, at the same time, pleased that the suppliers have decided to alter their past policy and to vary the price by a small amount as occasion may demand, rather than to loose a bombshell on the motoring public by making an unexpected announcement of a drastic increase. It is rumoured at the present time that a further small increase in the price of motor spirit may be expected during the next few months, but none save those who are intimately connected with the market conditions can speak authoritatively on the subject, and they have shown in the past that they are able to keep their secrets in a remarkably clever manner. Rumours, iherefore, have little or no significance, and ownerdrivers would be well advised to pay no heed to them.

## Testing Efficiency.

WHEN the Junior Car Club decided to abandon its annual General Efticiency Trial in favour of one which tested reliability at high speed, the motoring world was deprived of a very interesting and informative erent. A high-speed trial is excellent in itself, but it will be generally agreed that the data it provides is not of the same value to a prospective purchaser as was that produced by the General Efficiency Trial.

We suggest that the Club would do well to consider reviving the latter test as a direct auxiliary of the high-speed trial ; but with certain modifications, of which the following are the more im-portant:-Competitors should be required to cover five complete laps of Brooklands track within a fixed minimum period of time. En route, and preferably in a predetermined area of the track, the drivers would hare to erect the hood and side curtains, change a rear wheel, oil or grease every point on the chassis, as directed by the makers' instruction hook, and fill up with two gallons of fuel from a tin-all to the satisfaction of an observer, who, as in the past, would be "borrowed" from a rival car before the start of the trial.

We do not think there is any necessity at this stage to go into details; all we desire to do is broadly to outline a test which would make a direct appeal to the owner-driver and which would reveal several important aspects of what are, after all, points closely associated with efficiency.

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FEW garages can bonst o. a staf or equipment capable of tackling any type of automobile repair on the premises at a moment's notice, as the expense of maintaining an establishment of this description would be commercially impossible in most cases. It must also be remembered that the number of jobs calling for the highest degree of engineering skill or for the use of complicated machine tools is relatively small.

Take, for example, a country garage into which is towed an old car with a broken crankshaft. The proprietor linows that, as the car is of an obsolete lype, he cannot obtain a new cranksliaft from the makers to fit into the engine, and with his limited racilities he cannot make a new shaft on the spot; therefore he turns to the repair specialist who can do the work sfor him.

For the past twenty-three years the Laystall Motor Engineering Works, Ltd., have undertaken the specialized repair of motor vehicles and have installed plant capable of reproducing parts where required and turning out parts of other designs to fit in place of unsatisfactory components. For example, stronger crankshafts can be made to fit existing engines, or altered valve timing can be obtained by maling and using a new design of camshaft.

## Work for Real Craftsmen.

When going round the Laystall works one is struck by the multitude of various parts of all shapes and sizes passing through the shops at the same time. The skill demanded of the operators is, therefore, of a ligh order as they have to think out each job, as distinct from repetition work where one part follows another in succession, without variation and the same settings for machine tools can be employed. For example, one man may have to turn a crankshaft for a two-crlinder cyclecar in the morning and in the after noon set about another for an eight-cylinder racing engine.

Let us consider first the work dealing with repairs to units and parts sent in hy garages or private owners. These constitute the bulk of the jobs handled by the Laystall concern, but complete cars are also reccived from time to time for overhaul or minor repairs.

At the entrance to the works is a packing sloed; into this come boxes, crates, or, in many cases, unpacked parts of all shapes and sizes varying from complete engines down topnuts and bolts. These are taken in, and if there are no instructions attached to them they are put on one side until the office is advised of the nature of the work to be carried out. Next the parts are issued to the proper departments, with
(1) Four stages in a crankshaft order: a scrap part as a pattern, a slab forging, a punched-out slab and one having the main journals rough-turned. (2) Making a camshaft; a "master," a rough bar and a finished shaft. (3) A group of scrap gears to be reproduced. (4) A crankshaft mounted for machining the webs. (5) How a crankshaft is held while the connecting rods are fitted.


a time curd and full instructions as to what is to be done.
Take the case of a complete engine coming in for overhaul. With its instruction card attached it goes to the dismantling department, where all its parts are thoroughly washed, inspected and a report is made out as to the condition of each. This report is sent to the customer and his instructions are awaited, unless, of course, he has given authority! for the engine to be completely overhauled at the discretion of the company. When authority has been received to proceed the parts are soon issucd to the various sections. For instance, let us consider a crankease; this, when cleaned, may be found to possess a slight crack. Thus it goes first to the welding departhant, the activities of which are refermed in lifer.


METHODS OF REDAIK ANI WELJING OF OIJ PAKIS AND THE MAKING OF REPIACEMENTS ISY A SPECIALIST CONCERN.

The crankshaft is measared for wear on all the journals, it is inspected for further cracks, damaged loywnys and so forth, and the proper treatment is decided. Many shafts have to be reground to remove ridgus and hollows on their journals. The oil-ways have to be elvaned out in the case of drilled shafts after the grinding operation, and the shafte are fabonted finally on a balancing machine upon which


There are many points to be dealt with in regard to cylinders. These have to be measured for ovality and taper-that is to say, the cylindersthay not be ruly round, or the bores may be larger at the top end than at the bottom. Scored cylinder walls hate to be looked for, likewise erncks in the water jackets, cylinder heads or the bores themselves. legrinding is carried out by means of special machines in which the cylinder blocks are clamped to the bed, and a rotating bar carrying a small abrasive wheel revolves in the cylinder grinding out a circular bore, while a flexible pipe attached to the head of the cylinder sucks ont the grit and dust as it falls from the grinding wheel.

## Making New Pistons.

New pistons are, of course, required when the cyliuders hare been ground, likewise gudgron pins to suit them. Both castiron and aluminium pistons are made in the Laystall Works, and it is interesting to ncie that the cast-iron type linown as the De Luxe is some 33 per cent. lighter than the average cast-iron piston.

So far, we have dealt with parts and unts sent in for repair individually. In other cases a car comes in complete and it is housed in a steam-heated garage, where the units are removed and the car is then stored תway, covered down with dust sheets to preserve the coachwork until the parts return from the engine shops.

The welding department is a separate branch of its own, which has to deal with all types of metal and parts of all sizes. A defective unit is receiver from the instruction office or from ons of the other shons, as the case may be. It is cleaned and the whole extent of the damage has to be discovered; often a minor erack in a water jacket, for instance, may be found really to extend tiree or four times the length of the indicated damage. Defective metal has to be cut away, and in the case of cast-iron parts


## A crankshaft mounted on a balance-testing machine.

they are pre-heated in mulle furnaces to bring them up to the right heat, as the application of the welding torch to cold metal would result in high local temperature and cause fractures due to the too rapid expansion of the metal.

Expert operators apply the torch to the parts after the pre-heating process, and by means of melting welding rods in the flame cause molten matal to flow into the cracks or to deposit itself in the proper place and form new metal which-is homogeneous with the oll and can be machined in the same way as if it were part of the original component.
Testing is the next process in welding, and this is done in the case of cylinder blocks by closing up all the water inlet or outlet holes with the exception of one to which a water delivery pipe is attached. The block is mounted over a testing trough and the water is pumped in until a pressure of 40 m . to 50 Jb . per

R:34
square in. is reached. Subject to the test being satisfiactory, the block is removed and placed under the surface grinder, which ensures absolutely true surfaces, such as those of the base flanges of the block or on the top of the casting on to which the head fits. A second test takes place to ensure that the grinding has not opened up any weak points.

Allusion has been made to the fitting of new crankshafts in the case of the old ones being broken or when wear has been too severe to be made good in the ordinary way.

Now we turn to the manufacture of these new shafts. In the stores are blank forgings from which are machined the new parts. There are many possibilities in this type of worli; for example, the new shaft may be required to be exactly the same as the old, but the journals will, of course, be larger than the worn ones, or the beariug size may have to be increased if this is considered desirable. The specification of the shaft has to be prepared and then a sleb forging, made from the best alloy sted, is taken


Special scales used for weighing the ends of connecting rods for balancing purposes.
and put on the marking-out table. After (his process has been completed the slab is put under a powerful punch, which slots out the jaws; from this machine it jasses to a special lathe which roughs out the webs, and the journals are next turned up. To ensure a fine finish on all the bearing surfaces grinding is employed, which gives a much higher degree of nccuracy than is possible with the cutting tool of a lathe.

After grinding, the shaft returns to a centre lathe for the finishing of the fanges, tapers or other fitting parts. The oil-ways are cut and where blind ends occur the holes are tapped and plugged.

Camshafts, too, often hare to be made to pattern to replace old ones and the process consists of turning a bar, roughing out in the first case the various bearings and leaving round blanks at the points where the cams are to be milled. This process is performed next and the shaft is carburized and hardened.

## An Intricate Job.

In the case of special camshafts great skill has to be employed, the first requirement being a specification setting forth the desired valve lifts and the timing diagram. A "master" then has to be made by hand; it is mounted between centres and attached to a pointer rotating on a graduated disc. This pointer indicates the actual position on the circle when the cam starts to lift the imaginary valve. $A$ clock-like gauge is applied to the cam and this shows the amount and duration of lift which it will impart to the valve. From this testing machine the "master" goes to a copying machine, which reproduces it-only ten times larger. This reproduction is used in the camshaft milling machine, which then proceeds to turn out the proper shaft in accordance with the oversize copy, the cains being finished, of course, by grinding.
We are indebted to the Laystall Motor Engineering Works, Itd., for the facilities granted in the collection of data and the taking of photographs at their Ewer Street premises, Southwark, Iondon, S.E.1.

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## IDYLL-ING <br> Who does not know the joy of a perfect road a perFECT DAY AND A CAR WHICH RUNS TO PERFECTION? AND WHO CAN FORGET SUCH A ROAD, SUCH A DAY AND SUCH A CAR?

NYOON founc us slowly descending a winding road which fell in easy gradients to the seat. Through the green 1 rees hartly yet in full foliage the sunlit water could be glimpsed, bue as the sky and almost as serene. There were late primroses in the woods and an stray labummm was shaking out its golden tresses; and all the shatlows were starred with anemone.
We had eome far. be hind us was the moorland high and bare, yet beantiful in its fresh tints and elusive mists. The village gardens were gay with early flowers, the streets sweet wilh the fragrance of wallfowers. One thought of Mortis's lines:-

## the breezes soft

That ner the blossoms of the orchard blow
The thousand things that 'neath the young leares grow The hopes and chances of the growing year,
Winter forgoten long and summer near."
A turn of the road and the whole bey faced us; the clifrs spangled with flowers falling sheer to where the lazy breakers lapned the rocks a hundred feet below; its curves stretching away in wondrous panorama to far-of shores hale hidden in purple haze. In a glade which shimmered with bucbells we had our pienic

"A turn of the road and the whole bay faced us."
lunch, our only company the birds that futed overliead and the furry scurrying creatures that came to gaze with startled eyes and fled at a movement. Such a meal lingers in memory, and regretfully we packed up to resume our journey.
Where we roved that afternoon I cannot say; it was a journey through dreamland. Quaint hamlets we saw, untruched by the passage of time, towns which appeared in the dis tance and passed without our knowing their names, great woods and broad rivers and the everlasting hills. As the sun dipperl we came again to the main highway to town, and with the long straight road before us and a responsire car bencath we sped through the golden evening, thought-filled and silent.

I turned the last page and closed the book. It, with others purchased from the railway company, had occupied me all througn a dreary Sunday afternoon. when rain fell without ceasing from dawn to dusk-dreary, yes, but not to those who, with past memories of journeys awhecl to draw on, can, by means of guide books and similar literature, lose all thought of to-day in dreams of in-morrow.
G.A.

## WHEN JACKSON ADVERTISED.

JACKisove had decided to sell his car. The decision was it sound one, for any car that Jackson has liandlet for the best part of a year is just as well out of his clutches. Strolling into the "Piebald Cow," he stated his decision with the air of a Chancellor of the wexchequer announcing a retluction in the Load Tax.

We did not clamour for details. Jaclison looked surpriserl.
"If any of you chans want the first refusal you'd better speak quickly;" he added.
" Thants," we murmured.
" Anybody else after it, then?" asked Blake.
"There are two or three interested. Don't know that I'll let them have it, though. I'm a funny chap that way. Feel a bit particular about who I pass the old bus on to."
"If that car were mine," said Blake, "I'd sell it to the first mug that wanted it, whether he was a Wesleyan or a wife-heater."
"Better advertise it," I put in, to keep the peace. "Insert what they call a 'Small,' at 2d. a word Give me a bit of pencil." In a few moments I had drawn up the following masterly composition:-

RAMBLER, 1925, $10 \mathrm{lh} . \mathrm{p}$. tro-seater and dickey, dyammo lighting mad starting, good condition, f05.
"A distinguished piece of work," I remarked modestly, passing it round
" You've made a mistake here," said Blake. "Got the figures the wrong way round- $£ 95$ instead of E59." "What!" yelled Jackson. "That car for $£ 95$. You've lost your sense of values, my friend."

He scized the document and scannerl it.
"Wrill, of all the rotten adverts.! Quite apart from the price, it's the most stodgy, commonplace, unalluring, misleading announcement ever prepared for public consumption."
"I don't think much of it myself, as an adrertisement," remarked somebody else.
"What do you mean- as an advertisement'?" I retorted. "I'll admit it mightn't score high marks as a Somet on the Fall of Jerusalem, but as an advertisement I claim that it states the facts aceurately and concisely."
"An advertisement must do more than state facts," said that self-satisfied ass Caithwright. "It must appeal."
"I suppose you all think you can draw up a better adrert.," I said bitterly.

And, unon my word, that is just what they all did think.
"Let's take this as a basis," said Jackson, poising a mofane pencil over my script. "It'll be something to work on, anyway. To start with, you want to catch the (.). What about this- Don't Miss This Absolutely Einique Offer '?'"
" Simply awful!" we declared.
"It'll cost se a shilling," said Andy MacGregor. The (o) jection impressed Jackson.
"Well, then, let's start simply--'A Snip!""
"They won't let you, anyway," said Blake. "It's ugainst the policy of the paper. The name of the car always goes first.'
"What's the good of it, either?" I asked. "A fellow buying a car is interested in one or two particular
makes, and runs his eve down the columns till he finds them. We'll probably think a 'Snip' is a make he hasn't heard oí, and pass on.'
"Oh, all right then. 'Rambler, late 1925-
"W'hat d'you mean, "late 1925 ' $\%$ " growled Blake. " You bought it last Easter."
"Truth in Adrertising!" admonished Caithwright, who suffers from a conscience.
"It's true enough," Jackson protested. "Easter was late last year, remember. And the 1025 model was on view at the Show in 1924. It had probably been desigaed months before that."

It's wasting twopence," said MacGregor. "Nobody'll beliere se."

Between us we managed to stir some life into Jackson's conscience, but he procected in silence till he reached the price.
" Now seriously, you chaps, what ought I to ask for her?" he asked.
"Fifty-nine shiners," said Blake promntly. "I'd give you that myself if I didn't know so much of its mast history."
"My idea," said Jackson, ignoring Blake, " is £135." We guftawed heartily.
"There's no harm in asking a hundred," I suggested.
"A 1925 Rambler for a hundred pounds!" howled Tackson. "Yon're not right in the nut. Absurd!"
"We're talking about this particular Rambler," I explained gently. Didn't rou drive it once with only a pint of water in the radiator until a policeman
wanted to know if the miserable affair was on fire?"
"And don't you let your oil level get below the safety line once a fortnight?" inquired lilake.

Jackson leaned forward carnestly.
"All these things may be more or less true, though grossly exaggerated," he said. "But what you fellows don't understand is that the car isn't a hanemy the worse for any of them. Try it on the road! 'That's the test. However, we'll make allowances for the Sinicky prejudices of persons such as yourselves.

## Listen to this."

He declaimed the following effusion in a luscious voice :-

RAMBLER, 1025, $10-22$ h.p. two-seater and double diekey, bandsome upholstery and finish, dynamo lighting and starting, clock, speedometer, spare wheed, balloon tyres, windscreen wiper, fully equipped, indistinguishable from new, any trial, f1:30. A snip! Jackson, 14b, Mountjoy Road.
" Some 'Small,'" I remarked.
"Six and fourpence!" murmured MacGregor, in a tone of awe.
" About as much as the car"ll be worth after another six months in Jaclison's hands," predicted Blake. "For of course he won't sell it."
"No, he certainly won't sell it," we said with conviction.

But he did! The power of the l'ress is simply amazing.
A.E.B.

## NEW DETACHABLE REAR WHEEL.

ADETACHABLE wheel for use with three-wheeled 1 cyclecars has recently been patented by Mr. C. J. llamilton, 48, Grange Road, Bishop's Stortford, Herts. The design incorporates a plain hub shell, on which a wirespoked rim is built, this shell being interchangeable with either the rear or front hubs, so that a spare wheel mas be carried.

The rear hub consists of a housing containing ball or roller races and a spindle. One end of the housing has four keys or splines machined on it, whilst the other end is screwed to receive a large nut, on one face of which is a drilled flange. Formed integral with the driving-chain sprocket is a short, hollow, central boss having lour slots, which register with the keyways on the liearing housing. In addition, there are cight pegs projecting from the inner face of the sprocket ring; these pegs engage with holes in the hub-shell flange and form an extra means of drive transmission.

When in position the hub shell is truly concentric, becatise of a doubleconed ring on the sprocliet side and a single cone. which is part of the main locking nut, on the other side. These coned faces, which ensure rigidity and absence of backlash, are shown clearly in the accompanying part-sectional sketch of the comblete hub assembly.

The fork-ends are slotied in the usual way for chain arljustment, but on the driving side the slot is of large dimensions and carries a split block, in which is held a cup-shaped extension of the main spindle, the other b39
end of the spindle being threaded to take an ordinary nut. The large nut on the bearing housing is locked iu position ly a pin which passes through lineable holes in its flange and in that of the hub shell. 'The pin is prevented from dropping out by means of a spring-steel wire which is arrauged so that it engages with a slot in its shank.
To remove the wheel, after having jacked it up, it is necessary only to withdraw the locking pin and slack of' the large nut, then to unscrew the small spindle nut and slack the nut of the split clamp. The bearjng housing may then be tapped througl from its smaller end, whilst the main mut is further unscrewed until it is clear of the bearing housing which, when drawn clear, allows the wheel so drop out.

If the sprocket ring is formed integral with a brake drum as depicted in the slietch, it will stay in position when the wheel is removed. Although appear ing. perhaps, a little complicated, it is a fact that the wheel may be removed and replaced in less than two minutes, no adjustments of any kind being necessary.

By arranging the front hubs to talie the hub shell, the convenience of interchangeable wheels may be enjoyed and a spare, suitable both for front and rear, may be provided.

The designer is prepared to negotiate with anyone who is interested in this detachable wheel and who might be prepared to take up its manufacture on a commercial basis.!


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## WHAT INVENTORS ARE DOING.

RECENT PATENTS WHICH REVEAL THE TENDENCIES OF DESIGNERS TOWARDS
DETAIL IMPROVENENTS.


POSSSESSING the merit of simplicity, a shock absorber, constructed on the principle of the cxternal contracting band brake, has been recently patented by Mr. C. F. Vaughan. It consists of two major parts, the one working on the other, as will be seen by referring to one of the sketches on this page.

The extremity of the lower arm is connected to the axle and the upper one to the chassis. The former arm carrie; the dram and the latter the band, which can be adjusted by means of the spring-loaded wing nut. A lange on the drum and an end plate of greater diameter than the drum holl the innd in place laterally.

When the axle rises the arms move towards one another and the braking action will be comparatively small owing to the tendency of the band to spring "open." On the rebound, however, the arms separate and the band tends to wrap itself round the drum, thus checking too swift a movement of the axle. If a solid distance piece be used between the wing nut and band, in place of the spring, the braking effort will be the same in both directions. lapid adjustnent and the adaptability of this shock absorber to give one or two-way action are fealures of the invention.

## Another Anti-dazzle Idea.

Mr. G. O. J. I. Christiansen hopes to combat the dazzle nuisance by means of egg-shaped lamps which throw the bulk of the light on to the ground and surroundings close to the car and limit the long-listance beams. This is achieved by three features acting in combination. First the front glass is inclined forward and a small portion only is above the centre line of the lamp, thus giving a smah opening through which the long-range heams can bass and cutting off the dazzling upward light.

Secondly, the reflector is inclined it an angle of 11 degrees to the vertical. and. thirolly, the bulb is also set at an angle to the axis of the reflector. Whether this lamp will give a sufficiently bowerful light for country driving remains to be proved in priactice, but the presence of mwanted beams seems to be guarded against.

## Neat Petrol Pourer

Despite the popularity of fuel pumps the familiar twogallon can is still in everyday use, and the need for a pouring device is frequently experienced. Mr. S. Smith has originated a neat article of this kind which is normally housed inside the can. The only additions to the standard tin are the spout and its retaining nut. To empty the can the cal is removed, then the retaining nut immediately below it, the spout is pulled out, reverserl and fixed in place by the retaining nut. There are air vent holes in the spout, but they are drilled below the top of the retaining nut and thus do not allow the fuel to splash when pouring.

## Flexible Engine Mounting.

To reduce shocks transmitted by the chassis frame to the comparatively delicate aluminium crankcase Messrs. II. and J. $\mathrm{I}^{\text {. Garner propose mounting the engine at }}$ three points, all being universal joints and two allowing telescopic motion within limits.

Each joint takes the form of a split socket, the halves of which are clamped together by a bolt, the whole being fixed to the frame member. Free to move in this socket is a ball which accommodates a boss bolted to the engine arm. The boss can move in and out of the ball to proville telescopic atction or can be retainerl by a pin which holds the boss and ball together.

## Ingenious Universal Joint

Using compressed rubber balls as the flexible media in universill joints is out of the ordinary run, but there seems to be no serious objection to the scheme so long as the angularity between the shafts is small. Messrs. C. Wr. Spicer and G. L. Tarbox have patented the idea.
$13 y$ referring to the sketches it will be seen that one shaft carries a boss having two horizontal arms, whilst the other shaft has two vertionl arms. To each arm is secured a block haring a cavity in each end. In the example illustrated there are four blocks and four balls. the latter being partially compressed even when not under load.


TWHL question as to whether or not bicycles should carry white dises at the rear is arousing considerable interest among members of Parliament. Col. Ashley has informed Sir Harry Brittain that certain tests, recently carried out by oflicers of his Department in co-operation with the officers of the Royal Automobile Club, tended to show that while a white dise was of some assistance in enabling overtaking trafic to locnte a bicycle in the dark, it was not so effective as an efficient red reffector. The efficiency of the white dise varied considerably, according to the nature of the background, and there was the inherent difficulty of ensuring that the white patches or dises were always kept clean and in good condition.

On 'Juesday a Lill making it compulsory for cucles to carry a red rear reIlector was read for the first lime.
Mr. Beckett pressed the Minister to consider the advisability of stopping the use of tos powerful "searchlights" on
cars, but Col. Ashley replied that that matter did not arise. The Minister also said that in connection with the Rond Vehicles Bill he was considering the question of making it compulsory for all nootor vehicles to carry driving mirrors.

Mr. Day unquired if Col. Asbley would install telephones at all parking plaees, by meaus of which drivers of vehicles could be called by their employers when required. Col. Ashley re plied that he had no funds for this purpose. Apart from that, the practical difficulties would be insuperable.

Significauce attaches to a question put to Col. Aslcley by Mr. Macquisten. The Mivister had replied to a series of questions ns to accidents due to public service vehicles, nud Mr. Macquisten nsked if the right hon. gentleman would make provision that all motorists should be compelled to take out an insurance, so that if anybody was injured there would be an adequate sum for compensation.

Col. Ashley, however, merely replied that that point did not arise out of the original guestion.

Replying to Mr. T. Williams, Col. Ashley stated that, so far as he was awale, no toll bridges had been taken over by local authorities since January, 1025. No contributions were made for this purpose from the Road Fund under the Act of last year. Although he had power, under that Act, to buy out the toll bridges, the initiative in these matters must come from the local authority, and be liad no power to move.

The Minister of Transport stated that he hoped to couduct further experiments with regard to road surface materials intended to prevent skidding. Sir H. 1 brittain asked if a successful method bad been discovered so far, and Col. Ashey said that it would be agreed that to a substantial extent the rond surfaces had been improved. At any rate they are much better than they were.
The inconvenience nnd dimger caused by the practice of driving bullocks and ofher nnimals through the streets of urban districts during busy hours were leferven to by Mr. Diy: The Home Secretary, who replied, suggested that persons concerned in auy locality whero inconvenience was ocetsioned should approaclr their local atuthority and ask them to take action under Section SO of the Public Ifeulth Act, 1907.
The London Alvisory Cummittee aro giving consideration. Col. Ashley states, to the question of the removal or transfer of worlss or objects likely to linder the free circulation of trafic in any street. Me could not, however, anticipate uny recommendations they might malic.

T11E 1926 £200 Trial, organized by the Leeds Motor Club, was held ou Saturday, February 27 ch , with the start and tinish at Leeds. Dififteen light cars took part, and all but three reached the finish.

Although the route covered much of the ground used in last year's event, the weather conditions made the course far easice than on that occasion, the principal difliculties being two stretelies of deep mud above Thwaites Brow, and two deep and rocky water-splashes at Mogrington and Dob Park. Interesting entries were the three Lea-Francis enrs driven by Tallow, Norris and Dallison, Wallsgrove's Sports Riley and J. Hepworth's Alvis, which had a special sporting body with two spare wheels carried one on each side of the tail.
The route lay over main roads to Keighley Gate Eill, where W. Hepr worth's Alvis, the Austin Sevens driven by F. O. Langton and 13. Smith, V. G. Wullsgrove's Riley and the Lea-Francis team all made fast and certain climbs.

Thwaites Brow, a paved bill wilh n gradient of 1 in 5 , caused no failures, the whole entry elimbing with power in hand. Particularly weritorious ascents were made by Tabrum (Citroën), Whitlingham (Swift) and Canney (Jowett). whin, as usual, the Riley and LeaFrancis teams were fast.

Then followed the first mud section. Druids' Altar Lane, but it troubled nobody. In the second instalment, however, the failure of a larger car haulked several of the light cars and brought Wallsgrove's Riley to a staud-

## LIGHT CARS IN NORTH-COUNTRY TRIAL.

Leeds Motor Club Again Stages an Interesting Event.
still. Harden Bank was another hill too easy to cause any failures, although Norris (Lea-Francis) retired here with axde trouble.

On "Kanikovka" we noted good climbs by Langtou (Austin Seven), 'Tatiow and Dallison (Lea-Francis). Wallsgrove (Iiley) and Whittingham (Swift).

Shortly after the summit of this hill a water-splash was observed, but rone of the cars failed, the brothers Jiepworth preventing water reaching their engines by the use of shutters working on the roller-blind principle.
$\Delta \mathrm{n}$ hour and a half was allowed for lunch at Skipton, after which the route lay over easy ronds, and a short observed hill, known as "Jimmy's Glide," to Mopgington water-splash. Although deep, the bottom was fairly good and none of the cars failed, the shutters on the Alvises again being much in evidence.

Dob Park Splash, the last observed point, was not only deep but had a bottom composed of huge boulders, which played havoe with the motoreyele entry. Joth the Hepworths, with their roller blinds drawn, made fast and easy crossings, while Canney (Jowett) came throngh slowly and appeared to climb the farther bink in a series of hops as
he nerotiated the boulders, Langton's Austin Seven camo through with the greatest ease, but Smith, whose car was fitted with a streamlined body of boatlike clinker-built construction, drove so slowly that he appeared to stop for a moment.
Particularly good performances were made by Whittingham (Swift), Wallsgrove (Riley) and 'Iatlow and Dallison (Lea-Francis).

Delays amongst the motorcyeles caused the cars to be held up for some time both at Moggington and Dob Park, and as no delay carcls were issued by the officials, the drivers were at a loss to know whether to attempt to make up) the lost time or to drive to a revised schediule.

The following checked in at the fivish at Roundbay Park:-J. Hepworth (Alvis), W. J. Canney (Jowett), F. O. Langton (Austin 7), B. Smith (Austin 7), IV. Пepworth (Alvis), II. Whittingham (Swift), E. Tabrum (Citroen). V. G. Wallsgrove (Riley), IT. E. Tatlow (Lea-Francis), P. G. Dallison (LeaFrancis). We understand that II. E. Tatlow (Len-Francis) wus successful in gaining the first prize and T. G. Dallison, also in a Lea-Francis the fourth prize. I'atlow made fastest time on all hills and was on time at all checks.


## A Light Car of Real Distinction

The Renault 8.3 h.p. is always being unofficially tested on Continental roads, where drivers of every car carry spare rear springs as an item of regular equipment. If you saw what these Renaults survive in everyday service over leagues of potholes and cobblestones, you would realise that a car which stands this kind of hammering will make light of your conditions.
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| :---: | :---: | :---: | :---: | :---: |
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## 

READERS, NOTE.-It assists the small car movement and the advertiser, and ensures you prompl allention, to mention "The Light Car and Cyclecar" in your enquiries.



> We welcome at all times letters sent to us by readers for publicalion in these columns, and while taking no responsibllity for the opinions expressed therein, give prcfcrence to those letters which deal with subjects of general inforest No anonymous communications will be accopted, but the writermay use a nom de plume tf desired. To onsurc publication in the nextissue, letters must reach this officc notlater than Monday morning. We reserve the right to make any altcrations or deletions which we deem necessary.

## THE FUTURE OF THE SUPERCHARGER.

## Prominent Authorities on an Important Question.

## The Use of Superchargers.

Your recent editorial paragraph leaded, "Bar Superchargers," prompts ine to give my views on the subject. If We object of racing is to provide the manufacturer (who races has standard chassis, with minor

## Restriction

Suggested. modifientions) with his chance of a wiu und good advertiscment, and the wealthy and keen amateur sportsman with some splendid sport, then by ald means let the supercharger be barred.

There is no doubt that the introduction of the superelarger, as you very rightly poiut out, produces so many uew problems in design that by the time all the dificulties have been overcome the cost of experimenting and the construction of special engines and chassis is outside the reach of most small manufacturers and practically all amateurs.

As an example take the lirookinnds model Austin Seven. This little car is easily withiu the grasp of the average man who wants co get some sporting racing at a low tigure. The complete car (capabte of over $50 \mathrm{~m} . \mathrm{h} . \mathrm{p}$.) sells at $£ 26 \overline{\mathrm{~S}}$; but if anyone wanted me to supereharge one I should charge at least $£ 200$ extra, and then 1 would tell the purchaser auite frankly that I had ro faith in its reliability, although I would be prepared to gunrantee a sueed of $95 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. If the purchaser desired the same wonderful reliability of the standnrd Brooklaads model, hut in a supercharged state, I should charge lim at lenst $£ 800$ extra and guarantee him $100 \mathrm{~m} . \underline{\mathrm{n} .1}$.

That, I think, shows what supercharging does to the cost of racing, and as cost is mostly made up of "tine spent," it means that long periods of preparation have to be provided for, and this is a furthis setious deterrent. If, on the other hand, racing is to provide means of developing, upon certain lines, the pettol engine and tho chassis, then by all means give free rein to those who wish to use the supercharger.
I can see the rossibility that its adoption can usefully be applied to the ordinary motorear or commercial motor, aud that its use wilh bave n very direct bearing on the type of fuels used, among many others.

We live in an age that regards all legislation as having but one method of application. If a problem arises that seems to require some sort of control or guidance, the first and monlar suggestion is niways to bar prohibit or circunseribe, in some form or another. We are so nft:id of the unkmown and so blind to the possibilities for good that may be in that
region.

Would it not be far more nflicient if new problems were rppronched in the friendly uad kindly, helpful spirit. and with some consideration for the teachings of history ${ }^{\text {Sin }}$ ? Surely if listory teaches anything it shows that, through innorance or fear, practienlly every new movement which has eventually resulted in public good has had to win through
in suite of persecution and deliberate opposition of every kind. The sole result of this has been to delay the benefits from being enjoyed by mankind.

Therefore 1 would suggest that, so far as the supereharger is concerned, the control, if any. imposed upon its use should simply be bascd uron the advisability of its develonment, and not killing it

It is possible thar owing to the high cost of its use for racing, uurestricted use may drive most people out of racing, and thus spoil its development by the lack of competition and, through this, its peucral use by manufacturers.

Cousequently, for the supercharger's own protection its use might well be restrictcd to certain erents or special clnsses, but I should be sorry to think these restrictions were of such a nature as to retard its steady progress.

In conclusion, may I offec the warning to this country and Europe that the U.S.A. are taking a very lively interest in the supereharger, and, that being so. manufacturevs orer here caunot afferd to leare the field to the States?
E. C. Gormen Exglind.

Science Eefore Sport.
Whilst fully appreciating the public-spirited policy which lnads you to suggest in your editorial, "Tonics of the Day," that sumerchargers should be barred. I feel that restrictions

The Views of Prof. Low. of this kind are very short-sighted. For many years past England has been distingulased for her coutributions to oriminal science and novelty of design in the attomobi:e world. She has also been distinguished for the fact that most of these suggestions have been developed abroad, to the benefit of foreign manufacturers.

If racing las for its ultimate object the provision of improsement for the beacfit of the public, it seems evident that the race should be to the fistest. A sportsman should not be interested in winning a race at a speed so many seconds faster than the fastest solid-tyred car; he should wish to state that his performance was the best against all-comers.

Because the supercharger has led to a few extraneons tronbles, such as burning valies, many reople are npt to state that the sumercharger is suitable for racing only, and that it is unteliable.

From first principles it must be evident that an explosion should locally be rapid in order that thermal eficiency may be high. If the explosion takes place in a small fraction of a second, it is essential that the engine should run fast. If the engine turns at a high rate of revolutions per minute, the gas has only a short time to enter the cylinder. This has led to the design of special camshafts and to ralves with high lifts. The result of such freak valre gearing is very evident in the ease of long-distance races.

The supercharger, by increasing the induction pressure positively aroids the need for the freak-timing eanshaft, makes an engine more silent and holels out some small prospeet that the gearbox will not always be needed on every touring car.
Modern carhurntion methons are rery interesting luit they are an iuadequate compromise, for it is not practicable to virn petrol and air in sthermally eflicient manner when the mixing is n matter of guesswork nud the product liable to suffer from effects which are not those of a true gas
The modiern car sells largely bec:use of its comfort, nod the expensive car often is popular beenuse it con be ariven on toll gear mulhout the humming and vibrntion which result from the quantity-produced gearbox. The suncreharerer can overcome many of these difliculties. Tiuse will show whether it is a desirable adjunct to the average touring machine, but to bar its use in open competition and to restrict the possibilify of proaress in order that a few amateurs may grapple with the bookmakers is hardly desirable from the scientific aspect.
I am not aware that any motoring boily has succeeded in defining the amateur sportsman, and I cannot think that the mogress of design should endure even the possibility of restriction from 2 desire on the part of the public 10 see $\pi$ neck-and-neek finish.

A bair-pin-cornered race, in which front-wheel brakes were entirely prohibited, would be very exciting; it might permit the entry of a few more amateurs, but if the long view is adopted it would be a painfully retrograde step.

Is it quite established that the use of superchargers is entirely a question of money? I should have thought that it was also a questom of originality and initiative.
A. MI. Low, A.C.G.I., M.I.A.E., etc.

## Bar Superchargers.

As an enthusiastic owner of a sports light car and as one who is extremely keen on motoring sport I entirely agree with you that superchargers should be barred in all the principal racing events. Permitting them

## No Benefit

Whatever." makes it impossible for any amateur who is not nlmost a millionaire to competo with any chauce of suecess, whilst it appears to be beneficin in no way whatever. It is impossible to believe that superchargers have any great futuro for touring ear use, in view of the extremely adverse effect which they have upon the fuel consumption of engines to which they are fitted. I agree with you. Let them by all means be barred.
A. L. Visponts.

## Increase Efficiency, but-

1 fully ugree with your recent editorial remarks concerning superchargers. If we take any orthodox motorear engine and exnmine it carefully we find that every component part is necessary for its proper working. Thus,

## -Nal with

Superchargers it must have a carburetter and a magneto or coil, valves, pistons and so forth; but take nway one of these things and the engiue will not work properly, if at all. Up to a point the petrol engine is efficient, but it cannot compare with some other types of prime mover.
In order to gain greater efliciency the suncreharger has been introduced. What is the function of this amparatus? To cram more mixture into the cylinders in the shortest possible time. All well and good where sheer speed is required on racing tracks, but how does the private touring car owner benefit? In no way whatever that $I$ can sec.

Would not our pifted desinners be better employed in trying to find a method by which the potential energy of petrul could be used to greater advantage? By this 1 mean that if every drop of fuel were converted into a gas which could le burnt to its last ounce of power in the cylinders, leaving wo waste whatever, there would be no need for superehargers and the light car owner would have an engine about which so many of as often dream. J. Sroomieng.

The Road Fund Surplus.
What I want to know is-Why should there be a lioad Fund surplas now or in the future? Is the London-Coventry road, for instance, in such excellent condition that it does not regnire a penmy sponding on
Why Not
Spend It? and " way 1 ruined a brand-new balloon tyre athe up a rear-ance roller bearin!--I blame nothing save the exectable surface.

Thax l'azer.

## Improved Side Curtains.

We were interested in the letter from "Money Waiting" in your issue of February 2hih. We are somewhat surprised 1hat "Money Vating", secing that he mentions our name
particulaly, shouk not be aware of the

## Springmenntrolled

Windows. fact that we have slandardized a springcontrolled signalling wimlow. which fulfils thlt the features for whith he asks, and that during that period we must have matle something like 10,000 sets of curtains with this fenture.

If "Money Waiting" would care to get in tonch with us, we shall be very pleased indeed to give hita further details of our curtains, and in the meantime we are glad that one member of the motoring public, at any rate, realizes the necessity for somothing better than the triangular signalling tlip.

Cialso, Ltd.

## Balloons and Broken Springs.

Doubtless many readers will be interested to lean that, despite my repeated pleas in " lich Mixture" for any news of owner-drivers who have suffered broknn sprians on their cars whilst using balloon tyres, so far on!y aw゙s letters have been received. The second, which is apmented, is from the owner of a 1925 Standard.
liocus.
The following is the letter to which "Focus" refers:-
I see, on page $4: 30$ of The Trighe Cur and Cyclecar for February 2Gth, n note on "Balloons and Lruken Spriugs," which interests me, as I had a spring break the other day on my 11.4 h.p. Standard, $192 \overline{0}$ model. I had Hartiort shock absorbers fitted to my back springs only a few montles ago. I afterwards ordered a pair for the front springs, and recently when I took the car to have them fitted the mechranic found, on renoving the spring gaiters, that the under leaf of the near-side frout spring lad smapped, and was only being held in position by the gaiter.

I had recently moved temporarily to a honse near a levelcrossing, and it is probable that the fracture was due to driving too fast over the metals. I have had two new front springs fitted now, as the Staudard Co. linve altered and improved the pattern for 1926, and could not supply a leaf to match my 1025 spring. T'hey charged only for one suring, so now I am, I hope, beteer off than I was before the breaknge.

I have, however, had Hartford shock absorbers Gited to be on the safe side. I have also learnt to take level-erossings more seriously. It appears that Euglish railway compavies deliberately make their crossings as bumpy as they can, in order to discourage motoring, which they regned as detrimental to their antiquated methods of transport. In Jndia, where the main railways are State owned, the level-crossings are usually much better laid, and 1 can hardly believe that English railways could not improve their crossings if they wanted to do so.

These remarks, however, are by the way, as my main object in writing to you was to give you another instance of a breakage of a spring ou a car fitted with balloon tyres. The ear mentioned by your correspondent was a 1023 Humber, not built for balloon tyres, wherens my car was specinlly built with a view to being fitted with balloons, and its misfortunes may, therefore, be of more general interest as showing that large tyres do not relieve one of the necessity for caution in negotiatiug railway metals, which-in England, at ary rate-seldom deserve the mawe of "level"-crossings.
W.M.

Warn your newsagent to prepare for the demand for our Special Spring Number to be published on March 19th. Articles appropriate to the opening of the season will form the main feature of the issue.


# The lowest price at which any De Dion Saloon has ever been sold 

## The New J.P. De Dion 10/20 h.p.

Long supple cantilever springs to smooth outevery bumpintheroad-fourwidedoors - finely proportioned outines-a dignified and harmonious colour scheme - elegant fittings-these are the features which distinguish the I)e Dion J.P. Saloon.
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Other J. P. Modela and Pricen:-

Ah fully equippr
P4 以

YOU'LL like the appearance of this handsome 1 new De Dion Saloon. Although rated at a nominal $10 \mathrm{~h} . \mathrm{p}$. it is considerably larger and more roomy than other cars of its class. Its wide and generous body ensures the utimost comfort for four adults. Mere words cannot adequately describe its superb coach work - the flexibility and quictness of its wonderful engine, true to every De Dion tradi-tion-the delighiful simplicity of its gear change -the positive safety of its four wheel brakes.

Only a spell at the wheel can do this. Five all-toobrief milles will convince you that never before has such value been offered for so little moncy.

A touch on the starter and its powerful engine leaps into life. Depress the clutch-flick the gear lever into first-release the pedal and instantly the car glides away with a silken smoothness that must astonish the most critical owner.

In flexibility, ruggedness of coustruction, luxurious springing, economy of maintenance, the new J.P. Saloon is a typical De Dion product. Its deep, rest ful cushious and ample leg room ensure perfect relaxation even though you drive the whole day through.
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PUSSIES."

## OUR READERS' Ol'VIONS (contd.).

## The Two-stroke and the $£ 100$ Cyclecar.

## Two-Stroke Balance.

In the letter from Mr. IIfton Skinner which was pulslished last week the following passage appeared: "The twostroke . . . . is, in my opinion, immeasurably more suitBetter Than larsher, jhigher-revving, unbalanced
Four-stroke? four-stroke." I have italicised the word "unbalancel," because I have always believed that two-strokes aro less "balanced" than fourstrokes, owing to the need for a very heavy piston. Agreed, this weight can he offset to some extent by loading a part of the fywhed rim-but what a remedy !

As one who has owned several two-stroke-engined machines-mone of which would two-stroke except above half throtth-I eamot see any future for the type until the bugbear of fouk-stroking has been completely overeome. Mr. Sleinner sail nothing in his letter concerning the petrol consumption of two-stroke engines. I wonder why.

Dot-and-Carry-One.

## A $£ 100$ Car Specification.

I am sure that you are to be congratulated upon so frecly offering your columins for the very interesting discussion of the $£ 100$ small car. Please do not yet "close down" upon us Of course, the $£ 100$ car is wauted-by

Elaborate, but Possible oreat mumbers of peoplo. It secins to me, however, that there are many things to keen in mind, and it would be well to set out the features which must be there.
To my mind, such a velicle must carry as many passengers ภs the moderate-sized combinntion, because it is largely the sidecarist to whom such a car will appeal. It must, then, carry two adults and, say, two youngsters, with comfort. I think it must have four wheels. Tax must be the lowest nossible, i.c., $f(6$. Fuel consumption must be rery low- ( 0 m.n.s. to be desired. Oil consumption should be lower than the average motoreycle consumntion.

What about maximum specd? I think $\overline{50} 0 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. to $5 \overline{5}$ m.p.h. is mough, but acceleration must be an outstandiag feature. Mill-climbing, too, must be on a par with that of the combination.

It must have $n$ differential, on necount of road-holding and tyre life, and brakes must be good. There must be three specds and reverse, and if these are of the dog-clutch motorcrele type, so much the better, as they give easy changing.

It mist hold the road well. be mechanically quiet and of nien appearance. Iynnmo lighting should be fitted. And perhaps electric starting, although this may be listed as an exirn and adapted to be easily fitted by the owner.

All this seems a formidable list, but nearly all of the
items are matters of desiga and do not cost money to make. As an instance, a little carcful scheming on the drawing board will save a pound or two of tax, and bs the same means many miles per gallon can be added-the induction and exhaust systems of many cars are wasting untold quantities of fuel dails.

Low tax, luw consumption, good braking, road-holding, quietness, clean appearance-these need not cost money per car, but they will call for the very best efforts of the designer in the first place and long and minute consideration of every point.

Athough adhering to the foregoing desiderata, there is still plenty of scoue in the means of attaining them, withoust introducing anything freakish. The large use of pressings, the elimination of the chassis frame ns such, careful arrangements of springirg, so as to eliminate need for shock alsorbers, combined battery lighting and ignition-hero are some features for possible saving of cost. There are many others.

An experienced designer and a sound production engineer are needed. These are available, but a good business organization and decent resources are essential, too, before progress can be made.
G. H. Jones.

## The Two-stroke Engine.

The letter from Mr. Milton Skinner, of Pixie cyclecars, certainly is interesting, but I must continue to disagree with him regarding two-stroke engines. I think it can be proved on the test bench that the four-stroke

## Its Efficiency <br> Questioned.

 cycle is more efficient than the two stroke; if this were not so, surely we should see vastly more two-stroke engines in use, and I cannot remember that any speed records have ever fallen to a cyelecar or car fitted with this type of power unit. I know what the Scott motorcycle has done, but we are dealing with esclecars.When the Pixic gets into full production I shall be surprised if the majority of buyers do not specify a four-stroke engine. Which, Mr. Skinner sass, can be fitted if required.

With regard to the exact figure of $£ \mathbf{1 0 0}$ and its fascination, I would assure Mr. Skinuer that I did not originate the suggestion, and if any manuincturer cares to market a cyclecar at $£ 99$ 19s. 111d. I shall not dream of making a fuss. Actually I think that the proposed figure has been taken rather too literally, but it is a convenient sum in many respects, and $I$ see no reason why we should not adhere to it.

Who knows, we may set a fashion which will be followed by mntorcyclists. radio fans and scooter navigators. Yes, Mr. Skinner, there is a fascination in round figures, but I do wot quite see why it should be fatal. Shackepin.

## The Crankless Engine.

Although I am unable to share the boundless enthusiasm of "No Crank," in your issue of February 2Gth, I freely admit that the Michell engine is a very decided step in the right direction and, unless it is shelved

## Efficient in Practice.

 by the conservatism of manufacturers or the motoring nublic. it should have a great future. One should not, however, confuse this engine with the internal-combustion turbine, for the former has cylinders (in its present form five in number) nud pistons like other motors execpt that the axes of the cylinders are parallel to the shaft of the engine, and are arranged like the chambers in a revolver.The thrust of the piston is transmitted throush a Michell hearing block to a swash plate, i.c., a disc monnted slantTise on the shaft. Owing to the very high efliciency of the ally high merhanieal arrangement has given an exceptionper ennt. having hemen ebence to the engine, more than $\mathbf{9 0}$
Although the valves of the orclinisty engine is fitted with mnshroom cylinder, there done phitern operating in the head of the culty in arlnptine the nppear to be ans insuperable diffi-
$\Lambda$ car fitted with this engine is now in use $i$
and a few are, I beliere, on the roads of this country. As mounted in the car the engine is more than usually accessible. The bonnet is raised from the front as in the Renatit, the lfeads of the cylinders are then exposed and. a cover plate being removed, the ralve gear and so forth are exposed in a position leaving nothing to be desired. Dual ignition is employed, using two plugs per cylinder.

I regret that I have not any test reports of this particular car at hand, but tests made on an carlier experimental pottern may be of interest. This was an eight-evlinder engine rated at $35 \mathrm{~h} . \mathrm{p}$. On a bench test the following B.M.P.s were recorded:-

| R.P.M. | 250 | 500 | 750 | 1,000 | 1,200 |
| :--- | :---: | :---: | :---: | ---: | ---: |
| B.H.P. | 6 | 12 | 20 | 27 | 33 |
| R.P.M. | 1.400 | $1, S 00$ | 2,400 | $2, S 40$ | 2,950 |
| B.H.P. | $3 S$ | 47 | 54 | 58 | 60 |

It will be observed that the power was maintained over quite cxceptional range of speeds.

Fitted to a chassis weighing 31娄 cwt., this engine, on a
oug road test, gave a petrol consumption of $20.5 \mathrm{~m} . \mathrm{p} . \mathrm{g}$. and loug road test, gave a petral
an oil cousumption of $1,300 \mathrm{~m} . \mathrm{p} . \mathrm{g}$.
A. H. Stuart
oUR READERS' OPINIONS (contd.).

## Air-cooled "Fours."

Mr. S. Way asks why there are no aircooled fourevliuder light ear engines. The reason is because it is cheaper to machine a monobloc than four separnte cylinders,

Dearer Than
Water-cooled Units. and four air-cooled cylinders could not be cast together. Why, one wonders, are there so many enthusinsts for air cooling? The principle causes moisy nperation, rers heavy oil consumption, often poor betrol consumption aud, frequently, unduly rapid wear of working parts.
On the guestion of manufacturing costs, Mr. Way will doubless be interested to learn that it is cheaper to build -in large numbers- a good water-cooled monobloc fourcylinder engine than an equally good air-cooled twin.

Granuate.

## A Married Man's Troubles (?).

May I raise the question that must face many dashing lizht earists as it faces me at present? I have been rumning a G.N., delighting in its " exceleration "( ) and its emphatic exhaust. "Miss Baby" has now come

The Eternal
Feminine. along, however, and my wife (rightly, I think) objects to the dear old G.N. as being unsuitable for taking the little lady for joy rides, at least doring bad wenther.

What is to be done? What chenp light car will emulate the speed of the G.N. and ret give comfort to the haby? A soin, bobe takes most of the spare cash, so that all I can afford in exchange for nnother car is the afore-mentioned G.N. and, sas, $f 4$ or $£ 5$ per month.

Will the married men who have solved this difficulty help their less fortunate brethren? J.C.C.

## Morgan Chain Lubrication.

I bought a Morgan recently on which a former ingenious owner had fitted a small oil tank between the gear lever and the side of the body. Attached to the tank is a motoreycletype pump, from which two pipes lend A De Luxe 10 points just over the countershaft System. ehain sprockets. Thus, oil can be delipered without effort or mess exactly
where it is wanted
IIalf a mumful every 50 miles keens the chaius in topping condition. I have assimilated all the suggestions for "cooking," and also the tooth-brush method, but I claim that mine is the de luxe way.
As the iden is not mine, I nm free to blaze it abroad without being immodest-unvittingly I inherited a splendid scheme. Without n toothbrush-much less a suit of elothes -to suare, it appeals to me rather more than poctry!

A De Luxe Driver.

## Silencers and the Police.

As a regular reader of The Light Car and Cyclecar for nearly two years I should like to tell your readers of the latest form of police persecution. I was unfortunate enough
> to be stopned last week for driving with

The Latest Idea. out lights; these were in perfect order. but, ns I explained to the constable, I had stopped $n$ fow minutes earlier to huy some nil and liad probably knocked the switeh accidentally on getting into the rar and switehed off the lights. I had trawilled ahout two-thirds of a mile.
'This explanation nppeared satisfactory and I prepared in depart, but on looking around for further trouble, as would appear to be the police custom, he spotted the silencer. which interested him very much, and, having asked me what it was, he appeared rather puzzled, remarking that he had not previously seen one like it, and nithough it was. he admitted, very quict, in construction, or rather in design, it was entirely against the law and would have to be considered officially. I therefore had to show my licence and go through the usual formalities.
My enr is n Jowett, which. as you probably know, is fitted with $n$ silencer sbout 2 ft . in length, the exhnust pipes entering one at each end and the gases esenping through a hole midwny nlong the length of the casing. I nm not conversant with the internal construction of this silencer and therefore I nm rather puzzled to know how I nm to convince the usual type of magistrate that it is in order.

XW767.

Are the police the natuml encmics of Persecution Often this would seem to be the ense. While driving from London through Uxbridge one evening last month, on

$$
\begin{aligned}
& \text { A Shameful latering this ambuseade of constabu- my lights began to dim. Sceing } \\
& \text { A Shame }
\end{aligned}
$$

Episode. two policemen in deep conversation I slowed down and asked them whero there was n gavage or repair shop. They comble not tell me , although, as I found out afterwards, thete was one within a hundred yards. I said I wanted to dind one as 1 was afraid my lights would not last out. Whereupon they examined them and while doing so my rear light faded out.

Out came the notebooks, and the result was a summons and a fine.

Mad I driven on, my lights, being supplied by the dynamo, would have continued bright, but innocently and foolishly I appealed for assistance to two policemen, who by 110 stretch of imagination could be called sportsmen.

Malcota Morley.

## CONDENSED CORRESPONDENCE

Writing from Thhorlesin Mr. .J. G. L. Henrne, after complimentary remarks regarding The Light Car and Cyclecar, which, he says, is read by mauy Rhodesians, bemoans the fact that so few British makers produce a Colonial model light ear, a type of veliele which is badly needed in Africa.

Referring to the letter from "Bob of Bromley" in our issue of February 2Gth, Messrs. Miles F. Bingham, wakers of Parabolite lenses, say that, in their expericnee, very few headlamps are in correct focus, ryhich means that a largo amount of the illuminating power is wasted in unwanted glare. With the majority of lamps it is a simple matter to set the bulbs for correct focus.

Writing to "Focus," Mr. B. SAtaples points out, in connection with brake drums detachable with the whecls, that as the drums may wear diferently it is possilite that when changing a wheel it will be necessary to adjust the brakes and to readjust them when the original wheel is replaced. ITe suggests that the ideal arrangement would be to bave both wheels and drums readily but independently detachable.
"H.D.A.," Durban, writes to say that in Sutnh Afriea the 10-24 h.p. Singer which sells in England for \{ete costs $£ 335$, whilst the Nustin Seven is retailed at $£ 220$. Inover Nines, be remarks, are on the $£: 00$ mark and Swifts about £325. Our correspondent thinks that the Soutl Africnn motor agents are making excessive profits and that the British light ear manufacturers should fix Colonial prices for each Dominion. In this way he thinks that sales of British light cars in South $\Lambda$ frica would be inereased.

## INFORMATION WANTED.

Nover Eigir.-An instruction book dealing with the 1921 model is reguired by-G. S. Ibveading, 16 Ifinstergate Street, Thetford, Norfolk.

Belsize-Pradsifaw.-The sale or lorn of a $192:$ modil instruction book is requested by-W. W. Bancroft, Clumber Road, Poynton, Cheshire.
Crouch.-An instruction book is wanted denling with the 10218 h.p. o.h.v. British Anzani-engined model.-C. H. Marmont, 164, Cricklade Stıent, Cirencester, Glos.
D.T.P.-Tints on the ruming and maintenance of a $10.5 \mathrm{~h} . \mathrm{p} .1922$ model will be welcome, also an instruction book denling with this car.--II. G. O. Bayes, 122, Finedon Lioad, Irthlingboro', Northants.
Carbon Remover.-Which is the mast efficctive way of using Johnson's Carbon Remover? Should it be poured into the cylinders throngh the sparking plug holes?-J. M Sellors, 50, Russell Hill, Purley.

Ruode.-Maintenance hints and advice as to how to obtain the utmost rumning conomy with a 1924 light fourseater will be greatly appreciated.-Gernld Woodworth, Fdenville, Ǩemmage Road, Terenure, Dublin.

Camping.-It is proposed to spend a few week-ends and possibly the summer holiday in a motor camping tour. Suggestions as to interesting and suitable places and similar useful information will be acceptable.-T. Fenmore, 06, St. Luke's Road, Edgbaston, Birminghnm.

## LEA-FRANCIS

## A WORD Dear Sirs,

Broadsiairs

FROM AN OWNER I feel I should like to write and tell you that
last night I climbed Charing Hill (Kent) on top gear after starting from a standstill in the village (at foot of hill) occasioned by having to pull up for a traffic stop. I consider this a very good performance, as my car has already done 12,500 miles. I might add I was on my way home on an 85 mile journey, which $I$ accomplished in three hours.
If you consider this is a good performance you are at liberly to use this letter.

Yours faithfully,
S. S.

This is typical of the satisfaction which the ownership of a lea-Francis brings. Write for particulars and catalogue.
LEA E FRANCIS LIMITED. 118.120, GT. PORTLAND STREET. W.I Telephone: Museumi 8720 . Telegrams: Rusorncy. Wesdo. Lando:1

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For when you come to us we advise you which car to buy . . . . . provided, of course, you give us some facts to work on.
Then we guarantee you complete satisfaction in the model you buy.
We give you the run of our service department where you can get free advice and help and free minor repairs at any time. We don task you to pay cash if you don $t$ want to. There are three optional ways of buying. but we can't tell you here all that we can and will do for you. Come and see our stock and hear it all at first hand.

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and 12 payment. With option of a special rebate. USUALLY IN STOCK: Austin". 7," Clyno, Cleràn,
Morgan, Rover, Standard,
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London Arents: C. B Wardman \& Co.,Ltd.
Telephone-s 720 Yuocum

the bight down through the valve-can opening and pressing it under the slightly raised edge of the valve with a screwdriver or knife-blade, aud then pulling upwards.

There is no need to twist the string more than one revolution round the valve stem, and it is easily drawn through the opening at the sarae time as the ralve head.


An ingenious toal for starting screws in their threads when they are placed in a position inaccessible to the hands.

## For Awkwardly Placed Screws.

Every motorist knows the difficulty of starting awbwardly placed screws and bolts in their threads. The matter may be greatls simplified by the use of the tool described below.

A piece of heavy-gauge iron wire should be obtained 'and cut to a suitable length. One end should be bent round to form a handle and a slot cut in the other end with a hacksaw. Two short pieces of clock spring should then be placed in the slot in the manner shown in the illustration and soldered in position. Their free ends must then be bent outwards until they tend to spring apart.

When in use the ends of the spring are squeczed together and inserted in the sllot of the screw head. When the pressure of the fineers on the clock spring is released the tendency of the ends is to move outwards and grin the screw so that it can be started in its thread.


The chesp and easily made inspection lamp which is described in an accompanying paragraph.

## Jowett Air-strangler Control.

Owners of Jowetts which have no facia-buard control for the air strangler can easily arrmage one in the following way. A small brass cyclet should bre screwed into the off-side bonnet board fairly close to the radiator, and a loole bored through the dashboard about 3 ins. below the spot where the innition control passes through. Another eyelet should be serewed into the uuderside of the facia board as near as possil)le in line with the hole. A length of thin, but strong, cord may then be attached to the air-strangler lever on the carburetter and threaded throumh the eyelet on the bonnet bourd, the hole in the dash and,
funally, the eyelet on the ficia board. This corf: should be drawn tight enough to take up any slack without moving the siranchler. A brass ring about it in. in diameter may then be tied to the cord close to the eyelet and the job is complete.

## Removing an Old Patch.

It sometines happens that a ptucture oceurs mear an old patch. It is never satisfactory to stick n large patch over the original one, and unless the driver linows an casy way of removing old patches considerable difficulty may be experienced in making a repair.

All that is necessary is thoroughly to cover the old patch with solution and ignite it with a mateh. The resultant flare need on no account alarm the driver, as nfter a few sconds it may be blown out and the patch may easily be weeled off, leaving a clean surface for a larger one. The solution must not be allowed to burn for long, or the tube may be damaged.

## Withdrawal of Valves.

Difliculty is sometimes experienced in withdrawing volves after removing the cotter pins, owing to the restricted size of the opening for the valre cap preventing the insertion of a cool, nnd the position of the valve spring making it awkward to raise the valve by its stem.

Rapid withdrawal of the valre in these circumstauces can be effected by looping a piece of string and passing


Queries of general interest will be conswered under this heading whenever possible, but a stamped addressed envelope must be enclosed for reply by post. Telephonic inquiries cannot be onswered
L.J.©. (London, W.O.1).-The prescuce of oil on the drum of your $9 \mathrm{~h} . \mathrm{p}$. Humber transmission brake is most probably due to overfilling the gearbox The oil lerel should not be above the top of the filler on the near side of the box.
A.l..C. (Mitchnm).-It is doubtful whether your insurance company would substitute your new light car for the sidmear outhit at present covered by the policy. They will most probably cancel the motorcycle policy and credit you with its surrender salue towards the car policy.
11.M. (Muidstone).- Ies, the starter ring of sour $11.4 \mathrm{~h} . \mathrm{p}$. Citroen is separate from the flywheel, and can be replaced.
O.C.W. (Oldham).-Yes, new celluloid can be fitted:in the frames of side curtains. As those on your car are of the metal-framed type, we think you could fit the material yourself.
W.ח.W. (Stockton-on-Tees).-The fitting of a windscreen visor is helpful so far as sun is concerned, but it makes little difference in rainy weather, for moisture gets undermeath it, and a wiper is still necessary:
G.D. (Southgate).-Vor timing purposes number one cylinder of your Morgan-Anzani is that on the left haud, viewed from the front. Two to threc thousandths of an inch clearance is correct for tive tappets, measured when cold.


CHESTER AND DISTRICT M.C. AND L.C.C. The secretary of tho Chester nnd District Motar Cecle and Limht Car Club is now Mr. I. II. Inoydit 20 Hough Grewn, Chesser, ta whons all mater

## INTER-VARSITY liILL.CLIMB

To-morrow (Saturday) tho Inter-'Varsity hill climb will take place in Henles Park en prisate road, which Capt. Hamilon bas kinilly placed at tho disposal of the Oxford nud Cambridge elaba. We understand itat the hill is cradient of about 1 in 9 and two bends. Un forrunately, accommodntion for spectatora is very limited, and admission to the grounds will
be granted only to ticket holders.

## YORKSHIRE CENTRE J.C.C

Tlic Vorkshire Centre of the Junior Car Club will hold a Ladies Night at the Mansion lletel, Roundhay. Icerk. to-morrow (Saturday), al 7 Thim. Thicre will be games, music and. dancing. been rancelled. the Ladies" Xighe being the closing erebl ol the winecr feason.
$A$ gocial weckend will be beld by tho Centro i Mardale Green on May 8th-9th. As the accommediation nvailable at the Dun Eull Molel tend to take nart ghould eammunleate ns soon as nosilile with the hon. cocretary, Nr. Mlichard ns noesinge with the hon. focretary Nr. Nichard
Jnifth, Torldon Lodge. Ifeidingley Lnne,
Lecils.

## TO CLUB SECRETARIES.

Reports and announcements intended for inclusion in next Friday's issue of "The Light Car and Cyclecar" must reach us by the first post on Tuesday morning.

## SURBITON M.C.S EVENTS

A carnival dance will be held by tho Surbiton Motar Club at tho Castlo Hotel. Michmuxd. on at 8 p.m. and continuing until 1 n.m. Tho clubi Grand Cup Trial bas been fixed los mection will bo beld on Anril 24 hth Amonss
 The county headguarters of tho club this car will be the "Anglers llest, hell Weir made tor tho comfort of membera. The onnual subeription of the club is $\mathcal{L} 1$. and the entry ce 5s. Applications for meniberthin will bo welromed by the bon. secretary. Nr. Kayc Don,
343 . Euston Rd. Jondon, N.Wv, who will Nimo te slad to furbish any particulars relative 10 tho club.

## OOZELUM M.C.

The recentlr formed Oozelum Motor Mul has now been amliated to tho A.-C.V. The opening run will be held roxt Sundas, March 7 th , atarting from lark Find Garake at 1030 a.mi.
Tho run will bo to the pier hend, Mastinäs, and tea will be taken at The Chequera lan. Lamberhurst, on the return journes. The club has derided to hold a Wur to Linton ne Faster. nd tours will alno be arranged at Whitaun and luring the Alsust Bank Moliday weck-end. On March 20th-21st a nizht rilal will be held rete-Brighton and Hove M.C.C Carchallon plameiond M.C
The headguriers of tho rlub have now burn fixed at "The Nbite IIorse." Fetter Inne, will take place to-morrow (Saturday) at 7.30 p.m. fur $B$ p.m. Ijelht refreshiments will he asailablo. and ans motorist intcrriled in thn
 Rosd, Calford, SE. 6

## R.A.C. PERMITS

The 12. A.C. las recently issucel closed permits for tho dollowing events:- March izth, Wh nt
 Jrd-4h Mochdalo and District M.C. Trial. Anril ioth, Wessex Centre A.-C.U. Kickham Trial.

## FORTHCOMING EVENTS

## March 5.

 Norlh. West London MEocial Run Pirmiuglam March G. Sirmiogham M.C.C. Villary Cup Trial
J.C.C. Opening lally, Burlord Bridge futcr-Varsity Ilill-climb, Ilentcy Park Oazelum M.C. Soical Evezang. Nimhe

Morgan M.C.
Coventry 「riangle M.C. Circnlar Ruß London Englo M.C. Onening IRum Southore M.C. Reliability 'rasi
Mareh 13.
Corentry Triancto M.C. Run
Lournc. North Lonulon M.C.C, Oncning Rub. Corentry Triangle M.C. Run to Chester Brightou and IIovo M.C. Hewett
Trophy Trial. Surbiton M.C. Marchiv. Carnival Dance. March 20.
Kent and Susgex L.C.C. Ralls.
Coventry Triangle M.O. Jum to Bas H. M.O.R.O. Opening Mcmbers Mecting. M.C.O. Opening Erent. Burford Uridge Midland Cycling and Athletic Club Dunlop Trophs Trial.

March $\quad 20-21$
Coveatry Tranglo M.C. Run 21. ford-on-Ason.
Morgan M.O. March 23. March 25.
Belsize-Bradshaw L.C.C. Socinl Fscning Marcil 27. Redditch M.O. aud C.C. Redditch Fissex Mr.C HSil-climb ingalo Common.

## CITY OF LONDON M.A

The City of London Motoriag Association will hold a sporting trial in Surrey on April 18 th, and the following clubs will be invited to tako
part:-Egham and Diatrict MI.O. and L.O.C. Wood Green and Diatrict M.C. and the SouthGate and Dlstrict M.C. On May 16 th tho association will hold an : All Round London " Rclinbility 'rriali tho routo will bo appraximately circular, having, ${ }^{n}$ radius al about 30 miles Micmorial Trophy liclinbilley Trial imom Iondon to M:ester and back will be held on September 18th.
Members or intending members who wish to take part in the assoclation's Easter run to secretary as shon as posulble. Sulitable accommedation will be proricled at paignion at $n$ cost of 7s. per ciav. The socretiny is Mr. T. O. Coombs. 64. Wool Fxchanec, Coleman Strect London. Wr. T. W. S. Osborne has been elected irisis scerctary to fill the vacancy ca

SOUTHERN JOWETT L.C C Tho next social erening organized by tho Southern Jowett Light Car Club will bo held being Slater's Restauraut. ${ }^{3} 4$ - 35 . Hligh Holboril London. W.C.1. Requests lor tickets later than Marela 8lh. The opening rally of

BIRKENHEAD AND DISTRICT M.C.
On April 18th the Birkcohead and Mistrict Notor Club inall hold an open amateur reliability Crosi Moads, at 11 am and finishiag at Shrews proximately 100 miles in tenith. The be ap proximately 100 miles in length. The entry memberg, and lorms and full particulars can bo LONDON EACLE MOTOR CLUB
very attractlvo programme lias been ar A very attractwo programme las heen as
ranged by the London fingle Molor Club for
the 1926 scason. No fewer than 29 socia runs have been fixed, whilu arec sporting events wheld on Sunday next, March 7 Lh , rund warticu held on Sunday next, March 7th, and particu bo a hall-day event-aro now available and may Rickards, 12 , Spring sercce. Londou. w. 2 The latter event will bo held on Aprif 11th tho entry ice reing 2s. 6a. A1m mororista are lars of membership bein, obtainablo from the

## Special <br> Spring <br> Number

## " "light Gr Cclecan <br> March 19th.

NEW AEROPLANE CLUB A new light plano rlub hnown as the Soutb of fornantion. Membership is open hat it hoped to make starl next month at an agrodrome close lo Lovinn. Othe bers may havo flying instruction and practice at a centro most convenicnt to them. and the diarges for fying tuition arc remarkably low and it should bo massiblo for memhers to ob mum of expensc. jarticulars of the club and samped envelope to the eecretiry. Flvinm omion w. Knox, 21, Airlio Gardens, Illord Lssex.

ROCHOALE CLUB'S TRIAL
On Frbruary 28th tho Jochdiale and Distrlct Motor, Club held arst car rinhbity and pretrol rom Rochdale at 9.30 and the rrute, which was Black Dene. Thisaites Brow, Crags Moor and Mytholm Stecps. Ont of an entry of 21 , there were 17
otarters. 14 of shom ©nishes the coursa. A arge crowd, calimated at several thonands, waiched the cars perform on Mytholm Siceps Whilo many apectators liad gallice on Cinga Mnar. Dr. Fultanand T. A. N. Leacector, both driving Frazer-Yash cars, nut un very goor pera remarkablo petrol consumption, covering tue colurse on 113 gallons.
The following are tho provisional resulta:-(Frazer-Nash). Best pelrol consumption: Dr. Fulton (Frazer-Nash). Beat clana penformanacea: Classci 1 and 2 a aninteur-II. Mawhard (A.C.) ; trado- 5 . Relife Morrle Cow tenm
BIRMINGMAM CLUB'S VICTORY TRIAL,
Tho Victory Trial, organized by the nirming ham Mutor Cyclo Club, will take place to-morKow (Sasturday), starting and finishing at tho Grounds. Alecster Lanc's End, Birmingham. Tho first compelitor will lenve at 8.1 n .m. nnd, contrary to usual practice, the zotorcycles and cars will be intermixed so iar abearcing order Is concerned. Tho routc is na follows:-Swan s Hill, Graveley Wísod, Noah's Ark Illil, Iligh Oak, Jaiseridne, Buckericlac, Ahborley, Grat Whlicy lunch, ston). Buckeridge, Lirerldge High Oak ISill, Mill' Iano Mill. Beacon and Gaby Gliric
J. G. Orlord (Austin Seven) Denley (Thode). (Austin Seron). B. W. IIarcourt (Austín Scven). II. F. Tatlow (Tica-Frncis), $\mathcal{N}$. Norrla (hea: Francis), F. TVallnm (Ten-Francia), B. Norris
 (Scnechnl), L. Finans (Rlloy), S. Wright (IInm(Bygatiti. S. II. Rno (Rlley). S. Whison (Sur-


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> Yours truly, R.H.S.

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'Phones
Museum 3081 and 3143.

## AROUND THE TRADE.

The Mobile and General Insurance Co., Ltd., offer reductions in preniums for all cars fitted with parabolite lenses.

Jowett cars, Lata., Idle, Bradford, hare issued an attractively illustrated folder dealing with the new long wheelbase two-senter Jowett, which sells for $\mathfrak{f} 1 \mathrm{G} 5$.

We are informed by Alexander Duckhan and Co., Mad. that the fire which recently occurred at their works will not in auy way affect their output of oiis and greases.

Both the premier car nwards in the recent Colmore Cup Trial were won by ears fitted with A.C.-Sphinx whys, while seven of the eleven gold medal winuers were also using this make of plug.
In the race for the New 'Zenland T.ight Car Cup held at Muriwai recently, first and third places were gained by an Alvis and an Austin Seven respectively, both cars ixemg filted with Lodge plugs.

Brown 1hrothers, Ltd., 2G-30, Great Eastern Street, LonCon, E.C.2, b:uw just publiched a nseful catalogue of their breakdown and garage equipment. The catalogue is intended only for the trade, and copics will be sent to any lona fide traders who npply to the above address.

The New Welding Co. (Northern), Jtd., 25, Migher Temple Stroch Manchester, are marketing $a$ vew piston known as the Philry. It is made of $n$ stecl alloy nud, owing to its design, is claimed to be practically as light as an aluminium piston of corresponding size

The Service Co. (London), Ltd., offered n prize sume time nero for the best slogan to use in comection with its business. "We Serve-You Save" was the one selected, the senders being awarded the $£ 5$ prize. It has now been decided, however, to adopt "Scrvice-Our Name and Aim," and the concern is dividing a further $£^{5}$ between the eutrants who subunitted this slogan.

During the visit of the Prince of Wales to the British Industries Fair at Castle Bromwich, His Royal Mighness, nceompanied by Sir Austen Chamberlain. spent some time at the stand of Alen-Liversidge, Ltd., and stayed to see n demonstratiou of the welding of stecl plates by the oxydissolved acetylene process. The Prince asked uumerous questions, and expressed special pleasure ou being told that the development of oxy-acetylene welding in general and dissolved acetylene equipment in particular was largely due to British enterprise.

LIGHT CAR PROVERBS.-No. 9. The winner of last week's Proverbs competition is Mr. P. S. Winn, 9, Brighton St. Barrow - in - Furness, and his proverb is quoted below the subjoined drawing. Among other good efforts were:-" A fool and his liennce are soon parted," "To tour is human, but to scorch-divinc," "Motor in haste-repent at leisure," and " lis not the miles we travel but the pace that kills."


A reckless journey leaves a sorry trail.

## Do you realize that the



Cobricls are supplied_ for all cars from \&6 GS. per set

Ask for Brochure "Why it pays to fit Gabriel Snubbers."

## DISARRANGEMENT OF LIGHTING AND STARTING EQUIPMENT

is, in the main, attributable to the effects of vibration; that the inconvenience and expense occasioned by repeated overhaul of this, and other more or less delicate mechanism, is the direct result of uncontrolled spring action?

## (x) 'GA18RIEL' KTH <br> Rebound Shock Absorbers

are the proven remedy. They save you a heap of trouble, and incidentally a considerable amount of money. No other spring control device combines the essentials which make for economical and comfortable motoring without destroying spring flexibility. Gabriels simply steady the springs by placing a gradual yet positive check on excessive movement.

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```
1921, Albert Coupeand double dickey, lightingandstarting. One ownersincenew, splendidorder &60
1922, Bugatti11.9, specialsemi-sports two-seaterand dickey, wholecarin perfect conditionder
*)
1925, Citroen775 two-seater, lightingandstarting, splendid order. Tyres as new
&135
```



```
1922, Coventry-Premier 4-wheeler, two-seater and double dickey, dynamo, excellent order.
1923.Hampongodityres asnew. Numerous extras
    , Hampton 12-20 h.p. two-seater and double sunken dickey. Dynamo lightingand self-
    'starter. Four-speed gearbox. Paintwork dark blue, with red antique leather upholstery.
1921, Lagonda Coupe, dynamolightingand self-\ddot{starter, ready to drive away .. ... .. .. .. .. 100 gns.}
1921-2, Rover 8 two-seater and dickey, dynamo, excellentmechanical condition .. .. .. .. & &5
*)
1924, Rover & four-seaterdeluxe, excellent condition
&70
$&75
1925, Rover9 h.p.four-seaterdeluxe, numerous extras, as new .
```



```
1923, Wolseley 10 h.p.two-seater and dickey, lighting and starting, smartappearance and in
    good order
    &85

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Ail models in stock. Any car or motorcycle taken in Part Payment.

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}
\(B_{5} \mathrm{E}\)
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GALMSON, 1025 model, 10 b.p. n-seater model de luxe. Eagush


CITROEN, is m.j., late 152j, claver lenf, balluon isces, abmalutely Aootber
HUMBER, 10 h.p., 1921, d-neater, Vary ine conditlon thro-ghout,
dyamo ghilig, chartiog, onlloan tgrea, all-weather cortalia,
cenulae barga
A USTEF, 7 h.p., 192A chommy, atarter and lighsing, aplendidy coschdnambed, lowisileage.
MOROAN, 1925, late model de lare, dsammo lighting, abjolutely al मew
MORGAN De Luse, 1924-25, w.-0., dynamo Ughtlog, etralght-sided ante, 3 -a peed, ato., equal
monaAn, 1923, Famly Model, F.ee, dynamo lighting, excep-
thonally nice condiflon ... .. .. .. .. .. .. .. ..
O.N., 1923, 2-seater and inken dickes, A-cyltader molel. dynamo
lighlog, ach-rlarter, cax pald, in rery ine conduion, extremets -mart appearance.
CITROEN, \(7 \cdot 5\) t.p., n-reater. 1223 model, starter and IIgting.
exceptionally nice condition .. .. .. .. .. ..
 ROVER, 8 b. p., 13 ma model do luxe, g-aeater sod dickey, dsamo

ETSTE BPADSEAW 1009 ,
日ELSIZE BRADSBAW, 102s, n-acater, dsasmo lichtiag alartlac,
dikef, realls arat-cias condubon and appearance

Another in simoat equisl condilion
Another in aimoal equsi condition
1 OVER \(8 \mathrm{~h} . \mathrm{p}\). Sporta 2 -aeater, atted with apecial long-talled Sporta badp, thoroughy overbauled, ro-coachilalighed, red ilags.
O.N., 2-meater, 3022, dokey
burg, etc., very nico car
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 A.B.c. A.B.C. Mntors, Led., Walton-on-Thames. Consule un firat votor-s

A.B.C., 1922 chummy, £68. Sco page 41. Beumotora. 693-10
 A.B.C., exceptionally fast 1921 aports, jast overhauled, high-zeared back
 A.B.C., 1926 model, super-sports, ased for demonstration only, 175
Gineas A.B.C. 1922-25 sporta, Gordon England racinp, type body, otside cop-
 A.B.C.a. We apecinlize in sccont-hand A.B.C.s Below

Cash. deferred or exchange. Ward and Co., 51: Cipper Richmond RI, A.B.C., 1922 Regent 2-sater, 858 : also

1921 uports, \&48: chotce of 6 others. Sce paze 41. Benmotorn A.BC., raclng alreamlined 2 -scater, ficled 1924 with rery apecial 1.506 c.e engine (C. 1 cylinders and Specialloids), anecial ball bearing o.b.v.
rocker pear, twin Zenith luiple-difluser carburetters, 11 -gallon petrul iank.
 whels, tyres gimont new. (including 2 super Rapsons). brare wheel, with Lrand new Duplon. Thiq car will do 85.90 mp .h and 65.70 mph . oll third, the engine is quite controltable for road uae. price e160. Can be secen by appointment. Dox No. 3930, care of "Tbe Light Car and
Cjelecar."
\(693-n 264\)
A. B.C., sports 2 seater, very tast, f50; deferred payments. exchauge
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\text { D. Railton and Co., } 6 \text { Chapel St., Sillord, Manchester. Cent. 8559. } 695-125
\]
A.B.C. 1923 Regent, ovirhauled by mangfacturers Februrs, cost e4

A.B.C., 1924 Regent 2 -sevier, sunk dickey, 4 upurb co.alition. 75 guincas.
A.B.C. 192 J Regent z-seatcr, sunk diekey, excellent condition, 70 guineis exchanges or teferred. II F. Edwards. 175 Gi. Purtiandi siä
W.1. Mayfar 6977 . A.B.C. 1921 - 2 aporta 2 -senter, dynamo, electric horn, nalotwork and up-


 A.C. 1921 2-scaler, e88. See page 41 . Benmotors. 693-11 A.C., \(1921-2\) super-sperts, aluminlim bcdy, red wings, starter, liphting. aperdometer, ref. counter, spot-light. clock: this car is exceptionally fast and in new condition throuyl:out, \(\& 130\) enah, deferred, exchanges. Blacklcy Motors, Rochdale Rd., Hlackley, Manchester. 'Phone, Cheetharn
A.C., 1921 उ-aeater cloverleaf, e88. Sec page 41. Benmotors. 693-6 A.C. 2-seater, 1920, dynamo lighling, elock, epeedameter, all-weather
 A.C., 1923 . 4 -cylinder, 2 -reater all-weatber. very nire order thronghoul.
 A.C., 2secater, dickey. rigid side curtains, tascd and insured. full cover. 693 -a.257 A.C., 1924.2 -scater nad dickes. 9150 : exchanges or deferred terms. The Ligit Car Co., 404-414 Eivaton Rd., London. Phonc, Museutn 3081 \(693-166\)
A.C. 1924 s-seater Royal, balloon tyres, rigid a.-w cquipment, Niarles pearance. laxed, e175: exchango or terms. Chester Mighall. Lidd.
 Arch). Always open.
quipment.
A.C 192312 hp 2 deater and double dickey, full makers' equipment. A.C., 1924. 2 sester and double dickes. sel-ntarter, clack, spedometer. elc., car rery carefully hander and zo new throughoat. 137. Ex
 A.C., 105 guineas, 1922, Rosal 4-seater, fully equipped, splendid condi-
tion thrcughout. Vivian, 33 Spenser St., Victoria Si., S.W. \(693-2 \mathrm{Fic}\)
8677. A.C., 1923 11.9, 4 -scater. completely equipped, leather apholatery, rear screns, cte. superb condition,
wards, 175 Gt. Portland St.. Winciair 6977 . Kas or
\(693-31\) A.C.. \(1924,12 h n\), Roral 4 -seater, equal to new, \(\boldsymbol{f 1 9 5}\). Newnham Motor
Co., 245 Hanmersmith Rd.。W.6. A. \(0.1914,2\)-scater, excellent randition, e35. Alan Taylor and Co.,
128 IIIgh St. Wendsworth, S.W.18. Putney 1698 . A.C. 2-scater, starter, dynamo, rery clean: terms, 29 IOs. and 10
 A.c. Ifarold Simons for Larsains. Seo "Miscellancou Cara." 693-352 ALBATROS, 4 emter, 888 . Se page 41. Benmotors. 693-8 ARBERT car orerhauls: guaranteed cure for oiling ap; bodywork and spares. Second-hand Albort cara bought and sold; adrico and estimates


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ALBERTGWYNNE, all-weather, SG8. IIarold Simons for burgains. ALVis, 1923. super purts, alcminiuin 2-scatcr, rery fost, \(x 195\); de-


\section*{AMILCANS.}

Fernul balls. Phono, 1995 Putnes.
AMILCAR Epares.
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Vernon 1 Balls,
25 Iligh SL., Fulham.
z2z-30
AMILCAR, 1922 sportı, £G8. Sce pago 41. Benmolors. 695-9 AMiLCAR Grind Sporta, 1926, run 2,000 miles, as new, 2225 . Below.
 AMILCAR. Boon and Porter, Lid.
Otter the lullowing Eunrantecd aecond-han models:-
Offer ithe Grand Sport 2 -sosers, choice of 2 , from
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1926 Super Sports. 2 -weater, amall milcage, 185 .
Deferred fermin nud exchanges.iv.13. Phone, Riverside 1177. 693-253
159-163 Castclaau, Baraem, S.iv. ARIEL 9, Junc. 1924, chummy, excellent condition. mulicage 7.000 , taxed, fBO. Flelcher, 11 Callcoli Ra., Kilburn. N.W.6. 694 -m502 ARIEL 9. 69 quincas, 1923 cbnmmy, dynamo lighting, self-slartur, taxed,
 ARIER 9. 1923, chummy, perlect rigicl sido curtains, taxedi deferred iermé 9 ent 986 . AUSTIN 7, acu aut accond-hand models in stock. DJ. R. Rea, 27 VicLoria Grove, Gloucester IRd. W.B. Telesbone, Kensington 8572.1534
AUSTIN 7 hp sports, palnted jellow, red Wings, c 10 worth of accessorice. AUSTIN 7, 1924, electrio IIgbis, sclf-starter, firs? taxed 2925, Lotal
 AlISTIN, 7inp, 1925 model, spezdometer, clock, dash amp, radiator cosy. large tyrea, full 1926 equipment but tetter, car Uke acw in every way, AUSTIN 7, 1924, E95. Sco page 41. Benmotors. 693-13 AUSTIN, 7bp. 1924. electric startcr, a.w. cquipment atep manta, conchpalcted dark blue, very mart, reliablu car, taxed March. 885 . Frycr. AUSTIN 7. late 1924. family model. apecially painted dark violet in cxcellent condition throngliout, £100. Wilson, 7 Eccleston St. 695.989 AUSTIN, 1923, 7 hp chummy, as new specodmcter, clock dashlamn,
 AUSTIN 7, 1923 , chumms, splendid order, trial, s76. Writo, J.F.S., 29 AUSTIN, \(1924,7 \mathrm{hp}\) cbommy, taxcd, 5100 Georse Nevman and Co.
369 Eaiton Rd. London. 369 Easton Rd.., London AUSTIN 7, 1923, £78. Soe pago 41. Benmotors. 693-12 AUSTIN, 1925. 7 bp chommy. taxed, 2115 . Gcorgo Ncwman and Co. \(693-87\) AUSTIN 7s. Serure one of thesc famovis cars for Easter. We offer \(n\) prices from fif8: delerred terma, oxchanges. Elce, Lid., 11-15 Bishopagate Avc., Camomile St., EC. S. Pbonc, Arenue 5548 . 690.69 AUSTIN 7, 1925, starter, 11ghting, all-weather equipment spara whecl,

 AUSYIN 7, 1925 , in exceodinply alec condition in excry espect, as In-
 Austin 19257 hp coupa, taxid, \(\boldsymbol{x} 135\). Gcorgo Nowman and Co. 369 AUSTIN 7, 1924. cliummy electric starter, perlect condition through-
 AUSTIN 7. 1925, Erey, bock nbsorberi, fally equipped, taxed Decem-
Wer, £100. K.J. Nowis, 30 Widmoro lid., Bromley. AUSTIN 7, sporks, late 1924, done 3.000 milles, layed 192G, 6tarter, AUSTIN 7, 1924 chummy, atarter, mew tyren, spectioncter, taxed, fully equaped, bernard, 344 Kinge Rd., Chelaca, s.w. Kensinglon 4633 . G93-116 and bernard, HSTIN 7. Harold Simons for bargains. Sco "Miscellancous Cara." AUSTIN 7s. Several 1924 and 1925 models In stock, condition as new,

AUSTIN, \(7 \mathrm{bp} .1924-5\), low rrice. Hewilt, 86 Corentry Rd. Medworth, 69 J -n278 AUSTIN 7, 1924, electric starter, trlp, apecdometer, sploudid condition,

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE （continued）．}

 foum 5081 ．

 CALTHOAPE， 1922 2－calcer．878．Seo pago 41．Benmotora，693－18
 CALTHORPE， \(1220 \mathrm{Lp}, 1925\) ，smnll milleago，well equipped，double
 CALTHORPE，1921－2 4－ecater，\＆68．Sco pago 41．Benmolora．693－17 CALTHORPE， 1922 mollul 10hn all－－reatber coupc，Gunk dickey com－


 Phone，Richmonć S293．693－298


 CALTHORPE，G3 gimess 1921．4 seater，in extragood conditop，light－
 CALTHORPE， 73 guinnas，1922．23，4．sentor de luxe，doublo screen．

 cardens！Cirdensl；Cardensl11 7hp， 2 seater．side－bs．aldo seating，
 CARDEN，1921．lale 2 seaker，thin，olectrlo lightung and usual cquip．


 CHARRON．LAYCOCK，1924．21hp，fitted with sports 2 ．sestor bory，
 Museum

 Citroen apectalists anel distributorn．New and seconishand cara
 CITROEN， \(1922,1 \mathrm{hp}\) ，drop heaci coupe，alarter，luggaso，epecdometer， mentg，exchange3．Wilklna，Simpsou，upposito Olympla，Iondon
 CITROEN， 1922 4－scater，s85．Sec pago 41．Benmotors．693－22 CITROEN，1925， 11.4 ，4－5－nester．sLarter，Hghting，all－weather eqnip－
 CITROEN， 7.5 cloverleaf 3 －scater，latest 1926 model，allebtly abop－
 CITROEN 7， 1922 2－smter，f65．Sco pago 41．Bermolors．693－21
 CITROEN，7．5，1925．2－8caicr，milloge under 1．000，\＆95．Bulow． CITROEN，cloverleaf，1925，amall milleamo．fios．IIarves IIudson and Co．（next Goorga liotel），Rot＇lb W＇oodlord．E．18．＇I＇hone，Wanstead
2393 ． CITROEN， 1921 2－scatcr，f58．Sco pago 41．Benmotora．693－20 CITHOEN， 1925 ，\({ }^{7.5 h p, ~ 2-s e a t e r . ~ c o m p l e t o, ~ n e ~ c o n d i t i o n . ~ 295 ; ~ e x-~}\) CITROEN，£55，1921，1Ohp，4ecaecr，all－weather，Ughting，starting， out：owner－difen 28 months：any Ume Ssturday，8unday． 28 Brun wick Square，Camberwell．
CITROEN 7， 1924 coupo，298．Sow pago 41．Benmotorn 693－19 CITROEN， 7.5 hp，lato 1924 2－ncatcr，Lalloon tyrea，excelleut condition，
\＆85．North Staford Garage，Stone Rd．，glaflord．
 CITROEN 7.5 occasional 3 －nater，Juno， 1924 ，exceptional condifion， 286．Harlfordi， 5 good tyres，electrio horn．Atarter，eurtalna，tonla，ete．

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE （continued）．}

CITROEN， 80 guincal \(1923-2412.4 \mathrm{hp} 4\)－eater．English Lody laxed
 citnoEn，1925，Engliah body，4ocater，rear acreens，all－wether equipped，elistarter，toola，etc．，laxed，only 6,000 miles，condition per Courb 6684 W＇cstern．deferred papment． 21 Pennene Moxi， 693.78
 GITROEN， 1925 （April）， 7 bp ，cioverlcal，sell－siarter，apedomeler，tools taxed，only 4，000 miles，conditínn as new，290；deferred paymenta． 21 CITROEN 7， 1925 model，excellent appearanue and condition through
out， 85 gainca．Clarkn， 22.5 Eammerimilh Rd．。W．6． CITROEN coupe， \(1925,7 \mathrm{hp}\) ，E95．Gcorge Newman and Co．， 369 Eus．
ton Pd．，London． CITROEN Thp coupe，1924，good condition，285．Ratellyo Bros， 200
Ge．Portlag Gt．，Wil． 693.104 CITROEN 7，late 1922，2－acaler，aellentarter，dynamo lighelag，gpare保 ston 2562．
CITROEN 7.5 hp cloverleal model，shop－solled，speelal price to clear，list prica 21．5． CITROEN．Sprosen，Lid．for Citrocna；exchanges，delerred pajmenta．
19257 hp 2 scatcr， b bolutely perfect，many extraf，total macage 1.800 ． 87 galneas． 1925 （autumn） 7 hp clorer－leal，tyres，body，upholstery，elc．，as new．
chasals guarantecd， 100 guinca』． 111 Gt．Forland St．，W．i．ino
 CITROEN 4 veater， \(114 h p\) axcellent condition：lerms， 28 10n，ard 10 mon！hly paymenta of f8 10a，or cash f8．5．McCarthy＇s Motors． CITROEN 2 －seater， \(1925,7.6 \mathrm{hp}\) ，excellent condition：terms，s 10 ，and 10 monithly pavments of \(f 10\) ．or cash \(£ 100\) Mrrirths：Mntori． 49 CITAOEN，1925，7hp，\＆－irater，painted maroon，exceltent order，\＆95 Newzham Notor Co，． 245 Lammersmith Rd．，W．6．693－32 CITROEN， 19247.52 －mealer，atarter，upecdometer，inperh condition． 79 guincas excbanges or deferred．1L．F．Edwasda， 175 Gt．Portland Si
W．1． 693 －30 CITROEN，JOhp，4－scater，excellent order，f85：exchangen：falancy 693－289
CITROEN， 10.4 hp，1920，2－scater，all－weather equipment，very food
 GITROEN 7，lato 1925 ，J－seater，balloons，fully equipped，Helic used． warantecd coudiliou，玉lou．Below
CITROEN，11．4，1924，4－scater Englsh body，rear and aido screens． eood Isrea，beautifgl condition．£100：eschanges and delerred．Allerv CITROEN 1925 coupe，Thp，self－starter，lighting，apeedomecer，balloon yres，elc，verv aroall milleage and in mew condition throughout．a largain f110：exchanges，extended payments．Mcars and Hishop，Lid．，225a anil
227 Kammersmith Rd．，W．6．Riversirle 2230 ． 106 GITROEN 7， 95 guincaa，1925，actual Show model cloverlea！ 3 －seater． tarter and all－wenther equipment，apectal finith，colour maroon．lax paid． looks like new，las ecarcely been used，exchangea，delerred．Empiry
Notors， 325 IIigh Rd．，Chlawick，W．4．＇Phono．Chiawick 303．693－143 CITROEN 1925 Thp 3 －sealer，dsnamo and stagter，balloon tyrcs，excel cat condition， \(2110 ; 1924\) z－seater coupe，f95：cxchanget or deicred termag．The Le！at Car Cu．，404－414 Easton Rd．，Londua．Phone．Mu－
acam 3081 ．
 CLULEY，1906．JOhp：A－scatcr．atmost as new．214S．Nemoham Yolor CLULEY 1924－25 de luxe 2－seater nod dickey，leatber upholstered． balloon tyrea；thla car is in superb condition．． 100 tor quick eale． 31.1 CLYNO，1924－25，2－scater do laxe．falls equinped．Tartiords，aplendid Mansion kow．O．d Bromplor，Chatham． 693 －1845
CLYNO 1925 4－scater，Royal model，with balloon twred，leather uphal－
 nayment．Fiyer，Dove Walk，Uttoxcter．
CLYNO 1924－25 2－scater，self－startcr，speedomeler，toole，taxed，etc． condluion perlect．f85；deterred pasmente． 21 Pennant Mewa．Earlis
Oourt． 6684 Wentern． CLYNO 1926 4－seater，l．w．b．all－wather，mileage 200 othervise naw，
fl76．Lianel II．Pueh， 56 Sourh Mollon St．，iv．Maybir 43． CLYNO 1926 do luxe 4 －eeter，ix month，old，corditlon an naw．taxat， Camomllo Sh，E．C．3．＇Phone，Avenue 5548．11－15 Bishopsgate Are． CLYNO， 2923 4－seater．f98．See pago 41 ．Beamoters．693－23 CLYNO，Q－seater， 1925 ．Pully equipped，in otee condition， 110 guincas．
Longman Bros．， 17 Bond St．，Faline．Phono，Ealling 689 ， \(69 \mathrm{~J}-28 \mathrm{l}\) CLYNO 19252 seater，de inxe．In exerllent arder，milesge 3．000．f105： thorpe Notors，Hydetholpe kd．Ha山iam．excelleat order，292．oys－1コy CLYNo．South Fialing Garago． 1924 tseater，rear screen，really fint 693243
order．£110．Faling 2 gib3．

\title{
SECONDHAND \\ LIGHT CARS AND CYCLECAK.) FOR SALE (continucd).
}

COVENTRY-PREMIER, 1922 , 4 -whecler. 2. scater dickey, dynamo light Scarborong
COVENTRY-PREMIER, 1922. A55. Sce page 41. Denmolora.
 693-n235 COVENTRY.pREMIER, 8hp water-coolnd, 3 speeds. reverse, dynamp

COVENTAY.PREMIER, 1923 , 4 cylinders, Singor chasais, 4 -soa
linrtletts, 93 G . "orliand sl.
\(683-235\)
685
COVENTRY-PREMIER, 1922 A-whecler, orcruizo tyrin, dynamo. startor,

COVENTRY-PREMIER, 1922. dynamo llghting, fully equippod, 45 guinco. Longman Bros., 17 Bodd Sh. Ealug. Phone, Ealing 6959.282
COVENTRY.PREMIER, 1922, 8hp, 2-scater, sunk dickcy, dynamo, 4
Ens. © oxchanges or dolerred. 11. F. lidwards, 175 Gt . Portland St. 693 -309
W.i. Maytair 6977 .
COVENTRY.PREMIER, 39 guiness, 1922 , 2 -seater, dickey (aquaro back
 W.4. iphono. Chiswick 30, Embiro Molors, 325 High Ra., Chiawick

COVENTRY-PREMITe?, 1922, ahp, electrio lighting and horn, recently

CROUCH, 1923 104p, all-weather 2 -scater, sunk nickey, completely equipped, starcr, speodomoter, cxcellent condilion, 89 sis. exclinnges CROUCH 32p 1923 , \(693-314\) deferred lerma, Denmap Motor Asencs. 4 Denman Place, Piccadilly
Circus. Reg. 986 .
ERIC-GAMPBELL, 1924, 10hp, \(1 \%\)-mitre, 2 -seater and alckes, in really
 ins and startine. mans extras, including shock aboorbers, 40 m.p.e. m.p.h. gezr ration 42 , 7 and 16 to 1 , asacrifico at \(£ 135\). 'Phono during busincss hours Clerkenwell 6000, or writo Box No. 3745 , c.o.
ERIC.CAMPBELL, brand now, thop-soiled, 1926 model \(8-20\) chummy, 139 cuincas. Exchanges or deferred. Ele warde, 175 GL Porthand w.1. ©inajaly 6977 .

ERIC.CAMPBELL, 1924, chummy 4-senter, dynamo and starter. cecellent
 ERIC-LONGDEN, 59 guincas, 1923 , 10 bp , sporig 2 -ecatcr, dynamo light-


FIAT, 1924 , \(10-15 \mathrm{hp}\). Fporta, Gtud sporis \({ }^{\text {salloon body. Fery Last and }}\)
FIAT, \(1905.10-15 \mathrm{hp}\), torpado. exocllent order, \(\boldsymbol{c} 185\). Gcorgo Newman
and Co., 369 Euston Rd., London. \(69 \mathrm{~s}-84\)
 FIAT, \(10-15\). Jato 1922 . Englifh 4 seater bods, renainted lased Decomber, \(\dot{1} 135\). Blaxtons, 21 Swallow St., Piecadiliy, W.1. Gicrand 3518.9 FIAT. 1921 , \(10.15 \mathrm{hp}, 2\)-scated coupe dynamo nnd blarter, cxcellent 414 Euston Md., London. PLonc. Museun . 3nß1. Light Car G93-181
 C.N. IT. R Godiray, the original designer and manufacturer, for the C.N. Beforo deciding to porchase a G.N. Nrito for particulars of reC.N. Mang reliable scoond-hand molele nlon in stock at reasoriablo, prices. fist on request. H. R. Godircy Motors, Manor Rd., Ricamond. 'Thone.



C.N., 8.7, 1922 only ascd scason 1925, 5 , \(694-\mathrm{m} 730\)
 Liracs, Chellord Rd., Koutstord.
G.N., 1921. fast, economical. dsnamo 1Ighting, splendid condition. been
 tachable wheis, \({ }^{\text {fros }}\) excellent, snecdometer. electric and bulb herns,

G.N.s. Vadum Co.. Premicr G.N. Spreinljata, nffor unprecedented ralno G.N.s. Vadum Co.. Premicr Gith mriten guarantce.
G.N., very late 1922. enfino just orranamled repainted, really beantiful
C.N., late 1922, engline overbauled, iaxed. guarantecd, c46
G.N., 1922, as abore, gurrantecd, \(£ 45\)
C.N., 1922 touring model. very sound order, reveral extras, bargain,
G.N., 1922 model, good condition and appearance, \(£ 37\) 10s.

CN.s. Others in stock; atso Salrosons: deferred exchanger Oren sulurdays. dyamo, dickey and sparo whicel.



\section*{SECONDHAND}

\section*{LIGHT CARS AND CYCLECARS FOR SALE} (conlinued).

G N., 1921 , fited lamps, Jynamo lighting. sperdometer, etc., s36. A.V. C.N., f45, 1 Sop, Legero chassis, fitced standard body, with dickey, tazcd, panted grey, with red wings, specdomecer, dynawo lighting, spot
ligut, sory completo
toolkit, valunble stock of spares, very sound and


 C.N.g. Earln Lid. It youn aro meterested in these monderful litele magain pricos.
C.N., 1932 , black twill hood, dynamo lighting, dickey scal, doublo
C.N. 2902 alumintum body and pistons, bluo wings, tyres in Grst-clans
condition, iaxcd, lyd.
G.N., 1920 , dynamo lighting, dotachable whecls, painted dark bluc, cam
G.N., 1922, dsnamo, painteu cream, balloon tyrea, olcetric horn, c. 44. G.N.n. Several others in stock; any trinl. Morgans taken in part payment
C.N.s. Wo have a pood slock of nese lyres wuitable for these machines





C.N., 1922, dickes, dynamn lighsing spare whecl, Rood tspna, © 37 , or
 Andrews Motor Mart, 151 Whito Mart Lanc, Maracs. 693 -224
 G.N., 1923 , 4.scater, mechanicall, perfect, coachwork In excenlemt condi-






C.W.K., 1929, taxed, Hghts, spare wheel, etc. sido sereens, hood en

 tilléry. 6od cond 690

 C.W.K. 4 acatcr, excellent pondition terms, f4 and 10 monthly pry mon Green, N. 16 . Cllasold 6628 . C.W.K. Snrosen. Led.: Zor G.W.K.s. Exchnnges doforred rayments.
 CWYNNE car overhauls, body work and sparcs: second hand Gwynne cars bought and sold, advice nnd ctimates frec Gwynno Cara, Lid.. mann-



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}

\section*{CWYNNE B, scond liand cara, all models. orerhauled and guarantecd
 CWYNNE B, chumms: Junce \({ }^{1925}\), starter, lighting. ripid curtaina GWYNNE. South Ealing Carage 1923 84p chummy. fust inoroughe GWYNNE 8 nsed cars, clummy. 2 .seater do laxe, and latest trpe 4
 HAMPTON 192.1 9.81! 2 . Scatcr and double dickes, acl1 starter and
}

HAMPTON, \(5 \mathbf{5}\) guincas \(1920-21,2\) salacr, dsnamo lightinge elli-starler,

 HANDS, 1922 2-seater. E68 See page 41. Benmutors. 693.23
 a clissola 6628. HILLMAN, 1922-3 בwter, \(8: 95\). See page 41. Benmotors. \(693-26\)
 car can bo man
High st., norking, suricy
 horstman. 45 guinos 1921 , 10 hp . 2 -senter, đlekes, recently ro-

 Eilloil led. Muscum 760u 693.964
 HUMBER 9. chummy. 1925 . first taxed 1924, total mileage 6,000 re



 sOWETT, 1925, light four, s.5., bal double acreen, ferfect order, f125 SOWETT, 1926, coupe lieni, Emart and loomy. 2 seater, brand new


 JOWETT, 1923. 2-scaler, new batterics. Ferodo spring-interleaving, balInontyris, snecial silenewr, automatic serern wincr, extra air, taxed OWETT, 924. 2-seater. rlekev and self-starter, inx paid, 00, JowETT, lateat 1925 motlel, shinter, balloons, Hartfords, laxed 1926
 JOWETT, 1923, 2-sester, domble dickey, Martiord shock bsorbery, pring gajters, exceptional condition, tax pald lor sear, enall mileage Tanbindge welts.
JOWETT, 1922 2seater, £65. See page 41. Benmotora. 693.27 JOWETT, full 4 seater. 1925 model, halloons, now, used few demonstra thans ouly, untegistered, \(\mathcal{L 1 2 7}\) 1Us. Wilkinson, Motor Agent, Working
JOWETT, 1925, 2-seater, dickey. starter, balloons. speedometer, taxed, beatifal condition, 100 gulneas: gnolher, similar, 92 guincas: exchangex

JOWETT, 1925. 4scater, de luxe, upholstered real leather, balloor lyres, mileage \(\mathbf{~ J} .300\), coudltion as new, \(£ 115\). sla Hydethorpe Rd.
Jowett. R. G. Gamble, Crystal Palace.
For tho best second-hand Jowett consult apecialist
1925 2-seater, dickes, self-siarler, as new. ©110.
19242 -scater, dickey, very carofully ueod, \(£ 78\).
Exchanger, deferred payments; all madela guaranteco
16-22a Gipsy IIill. Crysinl Pnlace. 'Phone, Sydenbam 3579. 693-357
JOWETT, Intest 1925 model, Light 4 -seater, 2,600 miles, Lucas self-
 No. 3933 , co. There Light Car and Cselecar.

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}

 ham. Stratham 365 ?
SOWETT. Maynard'a ofter. for sale or exchange, another 19244 seater IOwet in very nice contl tion, filde electric Harter, and rear icreen, ppeedometer. ?co by bot tyrear nd licensed ready for uese, carctully userl

Jow
 LAGONDA: 1.926. 12-2A, aime ancater, mileage 700 , \(\mathcal{E} 60\) onder list
 590 LAGONDA. 559 exchanges, decterred naynient. 1921.22 Lazonda
 Esdenham 2452
LAGONDA. 19\%3, 2 seater. dickey, slartor, clock, specidometer. yood
 LAGONDA, 12.24 hg . All-wather tourcr, tront. .hecel prabes. futly
 LAGONDA, 1922. coupe, dickey. sell-starler., clock, \&peedometer. 665 . LEA-FRANCIS, 1905 (July), do luxe 2 -seater, 4 speeds, balloons, many extras.
LEA.FRANCIS. 1S25. 2 -seatcr. \({ }^{4}\) speeds, in exceptionally nice condi-

 LEA.FRANCIS. 100 guineng de luxe. upholstered real leather clock.
 MARLBOROUGH, 1 Ohp. 2 -seater and dickes. dsnamo lighting, sparo
 MARSEAL 1924 model, 2 neater aports. Hightig, and starling, ocut

MARSEAL, 1925 , 10 hp , sports, 2 scater and double dickes, starter and Miguting \(E\) all-aluminium body ispeg sound overlinuled and absoutely

MATCHLESS, \(\boldsymbol{C} 59\); exchanges, deferred parmente. 1925 Matchleas full 4-seatir, \(10 h p\). dynamo lighting, rigid all-acather cquipment, 4-wheel brakes, spare wheci sperdometer. uggace erid, practiong aew condi

693-201
MATCHLESS, 1923, 10hp, 4-seater, completely equipped. f.w.b., excellent condition. S5 guineasicexanges or det. Miaylair 6977 . 695 - 516 MATHIS, £25, exchanges, delerred, 1921 , 9hp, chummy model, selfMERCURY 10hp 1920-21 2 neater, double dickey qeat, dsnamo lightin, Kont tyres, pertect any irial or examination, \(2+5\), or exchange. 218
Kingston fi., Teddicston. MORGAN Service Depot. Omcial apnointed repairers by the Morgan Motor Co. for London. Full range of simares carried. New and secoud hand machines always in stock. Trade unplicd. Offial agents, Homac s
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202.840
Lower Clapton Rd., Elis. Clissold 2408 .
MOFGANS. James and Co. (Sheficld), Led., 261-7 Ecelesall Rd., Shet Meld, onicial ageute. Good stock of spares carried, New and second hand ruachines nehrly always in sluck. When in dimiculey telephonc
2460 Central, or wiro "Tact, Shefficld."
MORCANS, now and sccond band; cash, exchange, deferred. We buy
Morgans. Ulympia, Wiakeficld
MORGAN Scrvice Depat, Hall. 91 St. Peter's St. St. Albans. Tel. 636 Appointed omeral repairer by Morgan Motor Co. 1914. List of ncw and

MORGAN, Aynamo, specdoineter, Hared wings, Dunlon s.s. balloons, new on bact fed and crystalinc gres inish. Yery fayt, ready to drive away, insured ami
 MOAGAN, 1925, J.A.P., dynamo lighting. speclometer, bardly used anil irnistinguishabla frem new, £68. K.J. Motors. 30 Widmore Rd. MORGAN, 1925 . w-c. 8bp J.A.P... very litsle uxed and guaraniced, dev MOFGAN, do lure 1GRA. Anzanl, ohe cuarantecd sound throushout taxed, any trial, must all, bought bigger car, £80. Barton. Oaks. Lime MORGAN, Acro, Olympia Show model, cont \(£ 255\), lank side louvres Mer-plate, ans 693-n152
 Bradshawgate, Dolton: also 246-252 Deamsgate, Manchester. 693.969 MORGAN, late 1925. de juxe, n.-c. J.AP. engine, dynamo lighting. sidu


\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}


MORGAN, 19es. Grand Prix, orerhanled and filted with numerous new marta. maure with whito lining. polished aluminium dathboard, 8hp by 80 isrre isiepacy Road firin nnd Englebert Cord on tront whecls, new Gondrid, Cord on reat), hood, Windacreen, Stowart trip speedometer, 3 elecisic lampy, 2 acelyleno lamps, हenerator, electric horn, bulb



MORGAN, Family, model 1924 , recentls overhnuled, 13tackburno en-

 MORGAN family model, 1925, latest 8-10hp J.A Pr, Iucas dynamo \({ }^{2} 97\) 10s. JBelow.
mongan da luxe, 1924. 8hp w.c. J.A.P., fulls caulpped, Lucas dy-
 \({ }^{\text {Con Phone, Clisaold }}\) 2408.

MORGAN, 1922, Grand Prix, water-cooled Blackburne, dynamo, 5 Jamys, special chassis, fast and sound, 59 guineas. 51 Upper Rich- \(693-999\)
mond Rd. Fart Putiocr. MORGAN, \&8̃́ exchanges, deferred; 1925 de luxo model, J.A.P. MORGAN, 1926 model, family, completels equipped, w.-c., i w.b., i.s. tyres double sercen, con
MORGAN, 1925, family. W.-o. Blackburae, completely equipped specdo-
 MOAGAN, G.P., water-cooled J.A.P. good ifres. fully equipped, excellent MORGAN 1905, Aero Blackburne, watcreooled, ore mpmalal exhaust, apecial chain oiling, 2 dash lampa, spotlight, clock,

MORGANE. Potential busers will save many pounds by busing of us. Denferred and exchanges. Good carl. Guaranteed datea.
1923 lamily. W.-c. Blackburae, Lucas dynamo set, splendid condition and
1924 do luxe, w.-c. Blackburne, Lucas djnamo, laxed, and in grand

 Mountriem.

3-n296
MORGAN, 1924 . 578 , de luxe, dynamo, speedometer, water-cooled J.A.P.
in excellent condition, exchange. 23 Nicwlnnhall St. Oxlord. 693 n296
MORGAN, \(1923^{2}\) do luxe water-oooled M.A.G. engine, electric lighligg, Mpecdometer, finished purple, £75. Below.
MORGAN, 1925, de luxe, w. c. Anzani eagine, shop soiled onls. \(£ 120\), MORGAN, 1925, de luxe, w. C. Anzani engine, Bhop soiled only, 120.
Below.
Mades Molor Mart. List continually changing. Further particulara on

 MOAGAN, Sinrosen, Led.. for Morgans. Exchanges, deferred paymenta, 19251,2 family model, water-cooled J.A.P. many extrns, faxed, small
mileaze, absolutely as uew, 95 gns . 111 Gt. Portland St.. W.1. Phone.
Lingham 1212 .
MORGAN, 1923. 8hp M.A.G. W.c.e engine, de luxe model, with special wide body, dynamo liphting, specdometer, aluminium dash, in periect 8pa. Tel. 406. MORGAN, J92A, standard speedometer. onls done about 10,000 miles, \begin{tabular}{l} 
exwllent condition, must ell. 262. Write, Allison, 5 Ilarrington Rd... \\
\(\begin{array}{l}\text { G. } \mathbf{W} .75-n 284\end{array}\) \\
\hline
\end{tabular} MORGAN, 1925, lamily, model. Anzani ongine, dynamo lighting, air cushion, laxed until 1927 . has been carelully ued aince new by owner, Phone, Streatham 3440 .
MORGANS, exchanges, deferred payments. 1924 do laxe. w.-c., Blackburne, dynimo, spedometer, electric horn, amart, excellent condition
 MORGAN, 1925 de luxe, 8hp J. A.P., milengn under 3,000 . Ilst price,
 MORGAN, 79 guineas, 1924 . Grand Prix. Anzani engine Lucas dynamo lighting, speedometer, exceptionally, good condition: exchanges. Empire
Motors. 525 High Fid. Chiswick, W. 4 , Phone, Chiswick 303 . \(693-152\) MORGAN, 5y ouncas, lyes. Grand Prix, MA. A. ongine. Lucas dynamo lighting, speedometer smart, appearance, any examination, exchanges.
Empire Motors, 325 High IU., Otiswick, W.4. 'Phone, Chiswick 305, ,
693.156 Mn日CAN, 55 guneas. 1922 , Grand Prix, J.A.P. enpinc, drnamo light-
 MORCAN, 1905 , \(£ 130\), Lucas electric starter, water-cooled super-sports
J. A. P. engine, ippecioneter, leather bood, exira large body, taxed ilit


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 morgan. Kirk and Co. Ior gurrantecd second-hand Morgans, Highest


 ing excertionalis suw, condition, ch5.
 MORGAN, 1y22, de luxce water-cooled, 10hp. Mr A.G. cugiue, hods lincd
 Stanstead Rd.andilord, S.E.




 dington, W.2. Padd. 2608. MORGAN, bargain, 1926 Acro o.h.f. Blackburnc, cort \&170 month Lodge, Banbury.
 MORGAN, 1926 do luxa J.AP. engine, dynamo lighting, di, whels, ycar, as new, £97 10s. Ratclitle Bros., 200 Gt . Portlaud St. W. 1. MORGAN, do luxe model, 1920 , w.c. J. A.P., \{ully cquipned. C45. kilce, letd. 11-15 Bishoptgate Are., Camomile St., E.C.J. Phone,
Arenue \(55 \Delta 8\). MOAGAN runabouts. Wc have a limited number of good second-liand modelg in mock. All overhauled and guarablecd. Write for list, rec MORGAN, 268; exchanges, deferred; family model, J.^P. water-cooled engine, dynamo highting. Eplendid condition. King. New lid., Dxlord. MORGAN, £42: exchanges, defcrred; 1921 C.P. model, J.A.P waterOxlord. engine, dynamo lighting, Biuks carburcticr. King. New \(\quad\) Gd. MORGAN, e38 exchanges, delerred, 1920 do luxo model, J. A. pre enMORGAN, £GB: exchangce, delerred; 1924 G.P. model with 1926 T.A.P. water-cooled. dynamo lighting, straight-ifided tyres. Kiñ ing New
lid. Oxford.

 MORGAN, Grand Prix, 1924 M.A.G. enginc, clock specdometer, bulb horn, electric horn, dimmer, 5 lights, clectric lighting, ssing gaitera, wheal, in eplendid condition. \(£ 80\). Fryer, 16 Ribbleton Avenue. - Trenton.
MORRIS-UXFOKU, 9 hp, 2 -seater and dickey, 4-cylinder, wator-cooled
 NEW CASDEN 1925 2-neaicr, 7 hp , clectriz lighting, lools, pump, jack, model is filled with reverse ony \(£ 50\) delerred payments if desired Armolt and Parrion, Lid., 22 Wytho Rd., Willasden N.W.10. 693.600 NEW CARDEN, \(19 / 24\) fimily models, fdeal for famyy man with 2
children, laku als 4 in absolute comfort under hood, et tax, lnw run-

NEW CARDEN, Iato 1923. light 4 -geater, 7 hp, electric lightinge, 5 , Wheel, side rereena, etc. gool tyros, aplendid condition thrnughont e22
Teddington Garage, 160 Iligh St. Teddington. Kingston \(2562.643-n 274\)
PERRY, 2-acater coupe, L-eylinder, buff finlah, smart appearance, \(£ 17\) exchanges, balance feterred. Newnham's, lleath Rd. Twickenham.
Phone. Richmond 3293.
 RENAULT, \({ }^{1924}\) ghp, 2-seater and dickey. bulloon tyres, electric light formed or exchange. A. Green, back of No, 9 Blackiriars go casl, de Tel., Oenl 2191. , RENAULT 19258.3 saloon, excellent condition, taxed, e140. Georgo
Newman and Co, 369 Euston Rd., London. 693.91 RENAULT compe, 1925 8hp, f.w.b, balloon tyres, spare whecl, unneed Arthie simone suchCo., 6-7 Warren St. W.1. Museum 2578-9. 693.188

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SECONDHAND \\ LIGHT C．ARS AND CYCLECARS FOR SALE \\ －（contintied）
}

RENAULT，emart 1 G2 583 3hp crupre，privately owncd，l．w．b．，bulloon
 RENAULT，1925．§125 s＇e pabc 41．Bumaloré．693－28 RHODE，chumm， 1922 A．－ater，£68．Sev page 41. Benmotore． 69 RHODE，occassonal 4 ，practically now lyres，sicle curtaing，rear wind
 RHODE， \(1925,10.81 \mathrm{p}, 4\)－cater，t．w．b． 4 －speed， 5 now．Dunlopa，teather


 THODE， 921 （Nuvemum），inmme matcl，good condition，©58．The
 m．p．h on firme gear，fim b wire whecle，wres as new，just repaintel battesimp grey with rol the．and whecis． \(45 \mathrm{~m} \cdot \mathrm{n} \cdot \mathrm{g}\) ．apecially hal plate，fonnean aver，animmatic screce wiper，radiator shutters an

 RICHARDSON，E25：Ax，hangn，delerred payments： 1921 chummy 4.
 RILEY，Lewes Motor Works，
beloro ofteret \(]\) Writes．All Rileys completely orerhauled
\(z z z-162\)
 HoVER8．Titjon and ITh lior， 110 Woodvale，Itooor Oak，S．E．have tho yollowg in nice condminu，fully equipped and ready lor a trial rua：－ 1924 rever 8，occasimnal 4－scater．c72．2z2－373
 Widmore Ru，Broniley．694．642 HOVER， 8 hil， \(192 J 24,2\) satur to luxe，spectometer，clock，Jerilicr

 ROVER 8．We specializ in hicse cars and carry a large slock of all

REVER 8， 1925 ． 2 seatur，dymamo lighting，sparo wheel，excellent condi－
693－973
 HOVER 日，2924．25，2－seater，dickes；\＆75．Seo page 41．Benulotors
 ROVER 8 late 19252 seater，doublu dickey，sell－startor，milenge 2,800 ， hovers， 102 ，693－n156
 lampsicad 5102． ROVER 9， 1924 2－seater，f98．Scu page 41．Benmotors．693－38 ROVER 9，1925，de luxe， 4 seater，long wicelbase，balloons，siarler，etc．， ，Martin，Cliffe Bridge．Lewess． 693 －nl98 HOVERS，is and 9s．Seweral to choose Irom．Dederred payments：ex－
 ROVER，192 5 ， 8 hp ，chummy，dynamo lighting，recoachpainted and

nOVER， 1921 ．8hp，2－seater，dynamo lighting．apecdometer，all－weather
 montlily．Below．
 HOVER B，1922，2－soater，dynamo，spare，Lood tyres，exechlent condi－ HOVER 8 e3z 693 －n228
 hoven o，May，1925，model de luye，2－seater and dickey，many extras，

 ROVER， \(9-20,1.925\) ． 4 ecenter de luxe，tax paid，as new，\＆ 155. Rat 693 ． 105 ROVER， 9 －20，1925， 2 －seater and dickers．de luye model， 2 doors．long hanalst small milenge，1ax paid．dity．lratclitie Bros．， 200 Gt Gort
ROVER B， 1925 2－seater，dick－ 5 ．E58 see page tl Beumolure．693－56

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LIGHT CARS AND CYCLECARS FOR SALE （conlinued）．
ROVER 8．T925－4，chimmy，Hehting，Rtarter，inxced for year and in

 ROVER 8， 1924 4seater，£78．Sce page 41 ．Benmotors．693．3j ROVER 8，1924．de luxe A－senter，complete and in braulitul crder and
 ROVER 8， 1924 ，2－scater with largo double dickey seat，complite and
 ROVER，1923．chummy．faultless throughout．smart apmearance， 58 gulneas．Bctow
 nOVER 8， 1923 chummy，，275．Sce page 41．Benmotors．693－34
 ROVER 8，February，1925， 35 sealer，in perfect order throughout， guarantecd 12 months，． 875 ．Delosords，North Iow．Park Lanc． 8 ．Ojicn
89575
 ROVER 8， 1922 2－sonter，248．Sce page 41．Benmotors．695－30


AOVER 8，late 1923，2－seater and diokey，perlect order．\＆60．Batehelor， ROVER，chummy， 29234 seater，f68．See page 41．Benmototrs．693－31 ROVER 9， 1925 ，4－scater，balloons，specdometer，etc．，in first－class order，
120 Guineas． 51 Upper fuchmond Rd．，East Putuey． ROVER， \(1925,9-20 h n, 4\)－cylinder， 4 －seater，self－btarter，specdometer，all－ weather equipment，balloon tyres，taxed，appcarance abont equal new
 ROVER， 1924 do luxe，year＇a lax，fes．Sec page 41．Benmoturk，
 ROVER， 19252 －scater，\(£ 58\) ．Sce page 41．Beninotors．693－33 HOVER 8，1922－25．de luxe，new hood，side screcos，first－class condi－ ney．opes to any inspetion，248．51 693－995 ROVER．\(£ 55\) ；exchanges，deferred： 1922 8hp 2－seater，dynamo lighting ROVER 8， 1924 ，chammy 4 －wnter，in aplendid running condition． 860 ， ROVER 8．Marold Simons for bargains．Sce＂Miscellancous Cars．＂ ROVER 8．Fincbley Motors relfer 19242 －seater and double sunken
 ROVER， 8 hn ，chumms，1923．nerfect mechanical condition throughout， orerbauled by minkers last October，coachwork bas been well cared lor．
 Brondesbury Park，N．W＇．2．
ROVER，1924，8hp，t－siater do luxe，pith sell starter，\＆78．Newn－
\(693-329\)
 R（VER 4 －seater， 1924 ，8lip，terms \(f 810\) s．and 10 wonthy payments
 ROVER．11．F．Eduards ofter the iollowing llover 8 bargains：－
1923 de luxe 2 －scater．clock，speedouncter，starter，dickey，leather up－ holstery，superb condition， 79 gas．Below．
1924 8hp 4 －seater，compleicly equipped，clock，specdometer， 2 sparo whecls，excellent condition． 60 gas ．Below． 1 リ22 model 8hn 2－scater，completely equipred，gooll condition． 45 gus．； exchanges or deferred．Edwards， 175 Gi ．Portand st．，W．1．Mayfair
ROVER， 1921 ，2ecater，8hp，smart，maroon finish，e39；exchanges， mond \(\mathbf{j 2 9 5}\) ．Newnham．
 \begin{tabular}{l} 
cycles，balance delerred．Newnhams．Neath Rd．，Twickenham．Phonc， 690.287 \\
\hline 6293
\end{tabular} ROVER B，1924，4－acater de luxe，aell－starter，splendid order， \(\boldsymbol{f} 90\) ： gtended．Newnhamis，Ileath．Rd．，Twickenbam．Phone，Kichmoad ROVER， 1925 medel 8 hp do luxe，elentric starter and lighting，apeedo
 ROVER 8，1924，full 4，all－weather，asw bood，starter，ppeedometer． byring galters，B．and D．stabilizers ound coachworik cxcellent，taxtd December nearly mew．mechaniculy，ound．coachmork excellent，laxty December． ROVER．The Soulh Ealing Garage hare the following guaranterl Hover 8：which must be cleared；part excbanges，deferred terma：－ 1922，2－seater，\(£ 45\) ． 192 J．， 2 －seater saloou，\(£ 70\) ．
1924， 4 －scater，\(£ 80\) ．but thoroughly good cars．Ealing 2985．095．246 ROVER， 1924 llatol．9hp，o－seater．double dickey，fnished marocn，
 bargain，f＇105：cash，deferred terms，exchanges．
ojposite Olympia，Londoll．Plone，Riverside 2 ge ．

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE \\ (continued).}
 HOVER. Sprrasen, IAd, for Rovers. Exchnnges, delerrel pnymants 1322 8bn 2-mener. sneetomoler, mans extrab, good isres, inxed. \({ }^{47}\) Ens. ROVER, 1925 (lato) 9.20 hp , 4 -senter de luxe. 4 doors, lanlloons, amnll
 ROVER 8. 1922, de luxe 2 seater. With dickes, clock, speedometer,
 ROVER, C62; exchanges, deferred paymenta: 1923-24 Rove: chummy

 ROVER 日, 552 10s: 1925-24, 2-scater, Jlckcy, dymamo lighting,
 ROVER 8. 59 gna.: \(1.92 \bar{s}\) chumpy, aell-ularter, tax paid till December;
 ROVER \& \(\mathbf{f 4 5}\) : 1922 , 2 -teater, dynamo lightling, sinare wheel, re-
 ROVER 1924 4-5e3
 ROVER \&, E45: 1922, enecometer, spolight, electric horn. 3 new
 SALMSON, 192A, Grand Sport overbend camshaft model, fair wings, price \&125. BClow.
SALMSON 192510 En 2 -scater sporta, fitted specinl liood, acw appearance

 SALMSON, 1923 2-scarcr, £88. Sco pago 41. Benmotons. 693-39 SALMSON. Apply to the London distributors, Gordon Watnos and Ca, changee and special delerred terme arranged. S1 Brook St., London W.l. Phone. Mayiair 2966. SALMSON, 1925, 1Ohp. 2-seater sporta, rery fast, excelient condition, silarantced. tax paid, f115. Taylor's, 49.53 Susacx Pl., South Kens SALMSON, 1925, 10-15hp. 4 -door saloon, front-wheel braker, balloons. 4 speeds. very low milenge، aboolutoly perlect and indistionuishablo from new car, inaured, £ 275 . \({ }^{\text {a }}\), Bolow.
SALMSON, En \({ }^{\text {lish }}\) 2-seater \({ }^{\text {Lnd }}\) dickey, 1923, vers nico condilion
SALMSONE. Vadum Co. for really good second-hand Salmsons.
SALMSON, 1922, English coachbuilt body, dickey, dynamo, electrio SALMSON. 1922 Hate), Englinh body dickey, nearly new balloon tyres, polished aluminium bonnet, innumerable extras, very fine order, \(x 62\).
 SALMSON, 1922 2-beater, \(\mathbf{L 6 8}\). Sce pago 41. Benmotors. 69340 SALMSON, 1924 . 2eater, dicker, English body, hayed. New condition,
 SALMSON, 1924 enorte 2 -nenter, electric lighting and starling, rery small
 SALMSON, 118 guincas, 1924 Grand Sports modec, orerhead-camshalt

 8ALMSON, late 1923, 2. aeater English body, dichey, starter, taxed, good
 SALMSON, 1923. 10hp, somi-zport, 4 -seater Englizh hody, acll-startor and highting, all-weather equipment, tyres excellent clock, ppeedometer, man-
 2041.
 SALMSON, 19252 feater, painted red, dickey seat, full equpment, an
 SALMSON. H. F. Edwards otter the following Salmson bargains:-
1926 , 10.15 bletely
 1925 (late) 10 hp Grand Sports 2-seater, completely equipped, \(4 . \mathrm{w.b}\)., price 185 guineas. 180 low . 2 seater, sunk dickey, completely equipped price 100 Ob English do luxe 2 seater, sunk dickey completely equipped,
1924
excellent condition. 88 kuineas; exchanges or detexred. Edwards. 175
\(693-323\) GALMSON, new Aprll. 1924 , 10 hp , English de lure 2 -scater. dickey,
 comple
license
w .4.

\section*{LIGHT CARS AND CYCLECARS FOR SALE (conlinued).}

 SENECHAL, 1925 (3uly). 1,100 c.e., specinlly huncd and fitted wsth alu-
 Gren, Birminglaw.
SENECHALS. Sprosen, Lid., for Sencehala. Exclannges, deferted pay-

 SHORT.ASHBY, f4ar 1922, 8bp, Sorta 2-scater, alumininm hody, red
 SINGER. 10hp, 1924 de luse 4 -scater, painted blue, lealber uphol.
 2zz-944 SINGER, 192410 hp 4-seater, painted blue, elcetric lighte, sell-starter.
 SINGER do luxe, £112 10 f.; 1924 , 10 hp 2 -seater, diches, all-weather poymenta, exchangc. Walkiks, Simpson, oppositc Olympis, Lomion. SINGER, f107 15s., 1924 2-seater de luxe, slarter, all-weather, excel-
 SINGER. South Ealing Garage. 1924, 10hp, 1-scaler, balloon tyres,


 SINGER 19254 -senter de luxc, taxt for year, condition just like new, Lambs, Itd. opposita IIoo St. Station, Wallizamstow, or at diphts by
arrangement.
 SINGER. CaEs's Motor Mart, LLed. (established 1911). 1926 de luxo \(2-\)

 SINGER 1925 10-26 galoon, balloon tyras, milcaga 6,000, in new condi-
tion throughout. Rochdalo Rd., Blackley, Manchester. M'hono. Cbeethan Hill 102.
\(693-979\) SINGER, 1925 (Juno) 2 -3-scater do luxe, \(10-26 \mathrm{hp}\), ciO fax, largo double dickey, right-hand gCar chnnge, triplex Elags, balloon tyres, pncu-
matic upholntery throughout, clock, spedometer, dish layng, cle, wholo
 and and any trial nllowed. Apply, Box 3706, c.o. W. H. 6 mith nnd Son,
\(693-\mathrm{m} 729\) SINGER, 1921 2-seater, £48. Sce page 41. 13enmolors. 693̈.41 SINGER 1.Ohp, 1924 2-seater, double dickcy, starter and likhting, Mlche-
 SINGER, \(10-26 \mathrm{hp}, 1924\) de , uxe, 4 -scater, small milenge, recently over-
 SINGER lato 1924 4-senter, blye. 8,000 miles, perfect order, including
 SINGER. 1925 2scaler, f95. Bee page 41. Benmotors. \(\begin{array}{r}693-42\end{array}\)
 SINGER, \(10-26 \mathrm{hp}, 4\)-scater, bluc, 1923 , licensed December, 1926 , small mileage, excellont coudition, £175. Siroatham 2014. French's. High
nd. Balham.
O93-255 SINGER, 1923 C.P. model. 2.scat er, doublo dickes. dynamo, Bonnihsen, SINGER, 35 guineas, 1921, lohp- 2 -scater and double sunken dickey, genuine bargaln. exchanges. extendid, etc., very nice order throughout,
 SINGER, E99, exchanges, deterrea payment, 2924 singel 2 -seater, horn, ipare wheel, taxpd, exceliont wendition Beabridge Below, electric SINGER, X95, exchanges, deterred payments. 1923 of laxe 10hp. lighting. starter, all-weather payments, 1923 de luxe 4 seater, lent condition. Seabridge, 35 Hansler Rd., East Dulwich. \begin{tabular}{l} 
2452. \\
\hline Sydenham \\
\(693-202\)
\end{tabular}




\title{
SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE （continucd）．
}

SINGER 19212 －seater and dicker，starter，lighting，all－weather equip
 SINGER， \(1026 \mathrm{hp}, 4\)－ Fatg touring model de luxe，painted dark blue order，igres replacedl 5 munths exeellent candition．mechanlsm in periec including IIartarit dunlix shock absorbers，suction－opernted windscrecm
wiper，dririog manror． INCER SINGER， 1926 modil， 10.26 ， 4 －unor frloon，completely equipped，f．w．h，
hallnons，painted blice with cord upholsters．superb condition， 235 SINGER，1 1 25， 1026 A ．ier．completely equippmi，execllent cond 175 Gt．Portland Si．． 11.1 Vant exchanges or deferred．II．F．Kawards， SINGER．Ilarald Simens far largains．Sec＂Miscellancous Cara．＂ 695.351
 Richnoond 5295.
 SINGER 1925 10．26hp A．gat，in almost now concition，c 180 ．Wic

 Rd．，Westeluflon－Sea \(695-m 870\)




 STANDARD， 192 ．t， 114 zll－weather 2 －seater，pertect condition，taxed，
 STANDARD 4 rupter，11，4， 1 易5，whter，fyamo，all weather equip－
 STANDARD，exchangt，iliferred parments． 1924 de luxe all－weather 2 －
seater，diekev．lighting，flatri elild 1923 de luxe 2 －seater，dicke5，all－ wealher，lightmg．
wich Sydenhan 245 ？ STANDARD， 11 6hp， 4 ，ith， 1921 ，lightong，startina，leather uphoi－ STANDARD \(3-5\) senter，
£95．Ilelolorda，Nurth Rum，Park Lane．Dpen 8 to 8 ． 12 months，
693.76 STANDARD， 1925 （Aplit），4－weater，all－weather equippect，enlf－starter，
 STANDARD， 19242 ：iater，C98．See page 41 ．Bemmotora．693．4⿹ STANDARD， \(1924,31.4 \mathrm{kp}, 4\) neater de luse，sharter and lighting，taxed，
 STANDARD 9．2－ceater，isnamo lighting，spare wheol，complete，pertect
£45 Walter Jones，Newport，Salop． STANDARD， 1524,114 hp，allweather 4 －spaler， f 110 ：ditto， 2 －scater Rul．Lonndon．Phene，Museum 3081．Light Car Co．，4C4－414 Euston STANDABD， 31 hp 4 seatur， 1925 ．in kood ranning order，ans trial STANDARD， 1919,95 ，2seater，self－starter，dark bluc finish．all． ueather＇xunment，c52：exchanges，balance deferred．Nonnhnm＇s．
ILeath Rd．，Twickenham．＇Jhone，Richmond 3293.
 ket Palace．chomp，relinble car，worth inspection．22a Gipsy ifill．Crys STONELEIGH thn \(\overline{3}\) seater．fully equipped．in perfect conditlon， 1924 Teddington．Teleptonco kiugtou 7 floce .239 ．－V．Motors，Park Rd． 693.950
swift cats．Accredited agenta，Moore＇s Presto，North End and Tam
worth Rd．，Croydon．Phone 2623 ． SWIFY， \(1021,10 h p\) ， 2 －srater and dickes seat，tyyum，lighling，re anget Blackley Motors lrochdole Rd．Blackley，Nanchester．Phone Cheetham ITill 10？693－980 SWIFT，2925，10hp
yre，new conditionp，2－bcater itc luxe，all－wenther equipment，parker＇s． Ltd．，Bradshawgnte，Bollon；also 246．252 Deansgatc，Manchester， 971

SWIFT．FOCTH．Ltd．havo sereral Swifts．Bargains． 5 Heaih St． SWIFT， \(1914,7 \mathrm{hn}\), 2－seater，dynamo and starter，electric horn，runnink
onder，clear at 225 ，Mandes， 100 Gt ．Portland St．．London． \(693-259\)
SWIFT nice 2 －seater，spare wheel，hood，screen，lampt， 29 gujneps；ex－ chant motorcyele；weekly parments．Wandaworth Motor Exchanze，
Ehner st，Wandsworth（Town Station）． SWIFT，e35， 1920 10hp 2－smater，dicker，dynamo lighting，good tyres，

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE （continued）．}

SWIFY， 1925 model， \(10 h \mathrm{p}\) ，de luxe 4seater，completeiy equipped，f．w．1．


TALBOT，8－13，late 1923，completely orethauled last January，mileazo M，Uud，starter，dickes，insured，\＆120．John White，Cosnaught Clalo． nice late 19228 －18hp Talbot 2－seater，dickes dynnmo an exceptionalip meter．Klaxon，mirror，petrol can carrier，all－weather cnrtains，taxed w．Nuscum 4244 lired term abd exbages． 693.970

TALBOT，192 TAL日OT，1924．10－23hp．4－scatcr de lave，mans extras，bargain，e180
 TALEOT，£75；exchanger，deferred； 1922 8－18hp 2－scater，acli－fiarter 693－60 TALBOT，8－18，［923，de luxe， 2 －seater and dickes，starter and lighting
 worth，S．W 12


TALBOT， \(1923,8-18 \mathrm{hp}, 2\)－seater，sunk diekey，starter，speedometer 58
 YALBOT－DARRACQ，1922，8－18hp，2－seater，dickes，atarter，electric easy pasments，exchañes．Wilkins．Simpon，opposito Olympia，fondan．

TAMPLiN 4－winel cyclecar for tale， 2 －seater，9hn J．A．P．engine Light Car and Cyclecar．＂ T．B．，192．5， 3 ports，water－cooled sports J．A ．P．engine， 3 speeds，reverse，
 WINDSOR． 1925 （late）， 1015 ，2－door threc－quarter coupe，concealed holsters and black eather head，condlion pain throuehout 295
 WOLSELEY carg．Accredited Agenth．Moore＇s Presto．North End and WOLSELEY 1924 10hp 2－icater nod dickey，very litth used，perfect． é110：caab，deterred cr exchange．A．Green，back of No．9．Blacik－
WOLSELEY 7，1923，e75．Sce page 41．Benmolors．693．45 WOLSELEY 10 hp 1924 model 2－beater， \(\boldsymbol{\&} 100\) ．Ratchife Bras． 200 WOLSELEY 1921－22 2－seater de luxe，dynamo lighting and startins． neu hood，sido ecreens，dickey seat，Just orcrhauled fhroughout，guaran－ Pulnes．693－996 WOLSELEY， 7 bp，in thorough goiug order，e77．Child，Draper，Canter． WOLSELEY \(192511-22 h p 2\) cater，double dickey，atarter and light ing，balloon tyrew，numerous extras，panted brown，rery，nice oruer Ltd．， \(\mathbf{5 2 6}\) Euston Rd．， \(\mathbf{N}\) ．Hhone，Museum 5391 ．W．693－108 WOLSELEY，1924，11－22hp，lighting and siarier， 2 horns，gnedometer finished grey，excellent condition，\(£ 140\) ．Maudes．The Watsall Garage． \(693-260\)

 WOLSELEY， 75 guineas． \(10 h p, 1921\), 2－seater，dickes，starter．ete．，
 WOLSELEY．1Obp，2．senter and dickes， 1921 model de fuxe，dynaman lighling，self－alarter，clock．speccometer，ete in tip－top cocdition through－
out．tax mald，\＆68，bargain． 7 Sylvan Sydenham 22j5．693－194
WOLSELEY， \(1902,7 \mathrm{hp}\) ．2－seater，starting，lighting，allweather equip－ ECES Bood order throughout
WOLSELEY， \(1923,10 \mathrm{hp}\) ． 3 －seater de Juxe，real leather upholatery， alarter．lighsing，clock，spectometer and many excras．in excelient cond
 WOLSELEY， \(1925,11.22\) ．2－4eater，front dickes．completels equipieci， WOLSELEY， \(1925,11 \% 2.2\)－4eater，fromt dekes．
VOLSELEY 1923 I lhp 2 －seater，clock，specdometer，starter，sunk ，exerllent condition 2ser
WCLSELEY 192411 hp 2 seater，fully cejuipped．specuomater，jarter． dieker，auperb oriler， 120 gulnues：exchangeg or deterred． 695 ．\({ }^{\text {F }}\) WOLSELEY de luxe \(10 \mathrm{hp}, 2\)－senter，rev，clean：terms，\＆9 3n， 10
 WOLSELEY，Brooklands motel， 1 Chp ，alumanium boily，very inart，fast．
 WOLSELEY．Harold Stunas lor barisaing．See＂Miscellai：eous Cary＊＊

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stub axics, valres, bearings, road epriggs, arle shatts, cte., otc.
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slete manulacturing plant for Decmater parts. Weak parts havo boon rede manulacturing piant by our technical fiall.
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Cnuseway, London, S.E. 1 . Phonc, Hop 70 (privato ©xchange). 693.279

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AUSTIN di Ltd., 187 Oidd Curistchurch Ifd., Bournemouth. Dorbet. Imperial Motors; AUSTIN. Rntelitle Bros. Austin 7 hp 1926 models, immodiate delivery. motoroscies in part exchange. 200 Gt. Portland St., W. \(1 \quad\)\begin{tabular}{c} 
Muscum \\
862 z- 985 \\
\hline
\end{tabular} AUSTIN 7. Prompt deliscry of 1926 modils; deferred payments, ex
 AUSTIN. Jnokson'g Grage, Guildford. 'Pbone 345. Immediato deAUSTIN. Car Mart, Ltd., aro London Distributors and can gire carliest
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 AUSTIN, f149. Wilking, Simpson and Co.
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