

TENTS



The New "Clubman No. 66" Tent—Undoubtedly the best tent on the market for the Cycle or Pedestrian Campers. Easy to erect, entirely reliable and specially designed and made for the job. The outcome of careful tests and the advice of practical Campers. Note the following five important points—

Ample Size—A really roomy tent giving accommodation for two or three adults in comfort. Seven feet long, six wide long, 4 feet high, 1 foot walk.

Best Material—Made from best EGYPTIAN Gorton, specially proofed and absolutely water tight. Three piece brass socketed poles and lightweight fittings.

Light and Compact—Although roomy weighs only 11 lbs. and packs neatly into a valve with handle measuring only 21 inches by 4 1/2 inches (valve included).

Fully Guaranteed—Carries the same liberal Guarantee as all other "Clubman" lines and can be bought with perfect confidence of service.

Unsurpassed Value—No truly portable tent could have a better specification whatever the purchaser is prepared to pay. Yet the "Clubman No. 66" Tent is offered at the extremely competitive figure of 33/6

TIGHTS

All sizes from 23 to 34 in. inside length. Elastic waist. You cannot buy better at the price anywhere. Our 100% quality is a revelation in value, and our best quality is ideal for twelve, 22 quantity, round and recurv rules.

- Pure wool, first size, double seats, all sizes, black only... 12/6
- Wool, lighter quality... 10/6
- Heavy quality stockinette back... 9/6
- Wool, lighter quality... 3/6

UNDERPANTS

Specially made for cycling wear in cream cotton stockinette. Fly front. May be worn with shorts, knicker or racing tights... 3/6

UNDERVESTS

Specially made for cycling wear. Very soft to the skin. Round or V-neck, made of an excellent washing cream cashmere... 4/6

- Wool mixture... 3/6

SPECIAL NOTE

Free Postage applies only to Great Britain and the Irish Free State. Postage must be prepaid on all orders from the Colonies and abroad, and Customs Charges, if any, must be met by the Customer.

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

The
H. Grubb
1931

OF ACCESSORIES
ES & CYCLING WEAR
CING & TRAINING
QUIREMENTS, ETC.

The
Leading Firm

GOODS POST FREE UNLESS
DRESSLY STATED. SATIS-
ACTION GUARANTEED

H. Grubb, M.J.E.

11, DEPOT AND ALL POST ORDERS:
BART ST., BRIXTON, LONDON, S.W.9.

opposite "White Horse" J. Telephone: BR 1108-2284
Hours: 8 to 8. Wednesdays 8 to 1

OLD ROAD, TWICKENHAM, MIDD.

11, Popes Road, LEICESTER. Business Hours: 8 to 6
Saturday 6 to 1

77, LONDON ROAD, LEICESTER.
Hours 8 to 8. Thursdays closed.

Foreign and Colonial Customers

PLEASE NOTE

Free Postage applies only to Great Britain and the Irish Free State. Postage must be prepaid on all orders from the Colonies and abroad, and Customs Charges, if any, must be met by the Customer.

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SPECIAL NOTE—It is our constant aim to keep our large stocks up-to-date, but should you find the article you need is not listed in these pages, write and tell us. We will get it for you with the least possible delay. No list can contain everything.

F. H. GRUBB'S LIST OF ACCESSORIES, TYRES AND CYCLING WEAR

INTRODUCTION

to the Seventh Edition

1930-1931

(COPYRIGHT RESERVED)



F. H. GRUBB, M.J.E.

A world-famous cyclist and record breaker. Holder of the Brighton-out-race record for fourteen years, post holder of competition record for twelve hours on the road, out-and-home 100 miles record, etc. Three times road champion of Ireland and winner of many classic British races and time trials.

In a few short years, F. H. Grubb has, on merit alone, taken the lead as a specialist in the multifarious wants of the real cyclist, and his reputation has been built up on fair and square business methods, as many of our customers will testify.

The demand for Grubb cycles and accessories increases every year and a large factory (late Mercury cars) has been taken over at Twickenham.

Here a complete plant has been laid down to manufacture the cycles and various accessories which have been invented by Mr. Grubb to meet the needs of the real cyclist. Most of these devices are protected by patents, and all are high-class articles in which one may repose the utmost confidence.

All lines have been chosen with the object of giving our customers sterling value for money. For this reason many of the so-called 'bargain' lines found in other catalogues will not be found here. The experienced cyclist knows that quality is always worth the little extra cost. With the exception of a very few lines made by firms of repute on the Continent all our lines are British made.

We can only conclude by thanking our customer friends for past favours and assuring them of our continued efforts to merit their patronage in the future.

- THE LEADING FIRM -

GENERAL INFORMATION

TERMS—Cash with order. No easy payments for accessories, etc.

CASH ON DELIVERY

When ordering goods 'C.O.D.' customers should bear in mind the Post Office limits as to size and weight. Goods outside these limits (for example, built-up wheels) should be quoted 'C.O.D. on rail.' Full information will be supplied by the Post Office and the various railway companies.

FLUCTUATION IN PRICES

All prices in this list are subject to alteration without notice and manufacturers' minimum prices must be adhered to. Hardly a week passes without several of our many lines going up or down. We feel sure you will readily understand our little difficulties in this direction. Also our reputation as the most progressive firm compels us to keep a constant look-out for everything new that is likely to be of service to the real cyclist. Under these circumstances no list can be really up-to-date for long. Therefore we would respectfully ask you to co-operate with us and **send enough money.** Any excess cash will always be returned with order. In this way you will be helping us to help you and your consideration will be valued. We do not use the credit slip system.

ILLUSTRATIONS AND DESCRIPTIONS

Every care has been taken to ensure that illustrations and descriptions are as accurate as possible, but we cannot accept responsibility for every detail. Lines are constantly being improved. Most of the illustrations shown are printed from electros supplied by the makers of the goods.

HOW TO SEND MONEY

All Coin and Treasury Notes should be sent by registered post. With Postal Orders and Post Office Money Orders this is unnecessary. The safest method of sending a Postal Order is to make it payable to 'F. H. Grubb,' cross with two parallel lines like a cheque and keep the counterfoil. A little more trouble perhaps, but the safest and best way. **In all cases mention the amount of your remittance and give numbers of Treasury Notes, Postal Orders, etc.**

WHEN ORDERING

please be as explicit as possible. Doubtful instructions or an insufficient address always means delay and not infrequently disappointment.

Write your name and address in Block Letters

CLOTHING SECTION—

IMPORTANCE OF CORRECT MEASUREMENTS

In order that we may give you the utmost satisfaction it is essential that the following measurements be given as correctly as possible:—

Berets—state hat size.

Hose—state shoe size.

Jackets—give chest measurement and height.

Knickers—waist measurement and height.

Ladies' Rationals—As these may be made to order please let us have ALL measurements.

Shirts—state collar size and do not confuse it with your shirt neckband size, usually half-an-inch smaller.

Shoes—give index letter and size and state whether black or brown are required.

Shorts—give waist measurement.

Suits—give height, waist and chest measurements.

Tights—inside leg measurement.

The 'Grubb' Business has been built up and will be maintained on the big word SERVICE.

Grubb Delivery Vans ensure prompt service to London Customers.



The F. H. GRUBB LIST of ACCESSORIES

Arranged Alphabetically as far as possible.

ADJUSTERS—Chain, per pair

For Chater-Lea, single cog, hollow-spindle hub	1/3
" " double cog " " " " "	1/3
" " forward-opening quick-release	1/8
D.S.A. adjusting cams	1/3
Brampton, double-cog, hollow-spindle	10d.
Meredith, single-cog, hollow-spindle	8d.
" " double-cog " " " "	1/0

NEW LINES IN WEEK-END BAGS THAT WILL INTEREST YOU

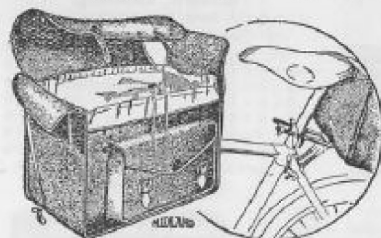
BAGS—

The

Midland Roamer

Novel features include special fixing to machine, detachable waterproof inside lining, aluminium framework, cape straps and large pocket.

No. 813, 13 1/2 x 8 x 6, khaki twill ... 14/0
No. 814 same size, black rubber drill ... 12/6



The Brooks B988 Jaybee

Jaybee patent tourist's bag of black waterproof fabric, folds up. Two quick stud fasteners and gusset opening. A distinctive article. 13 x 6 x 6 15/0



The Brooks B953

Holland. Black weatherproof fabric, strongly reinforced with leather for attachments. Cape loops and two end pockets suitable for maps, C.T.C. handbook, camera, etc. 12 1/2 x 6 x 5 1/6 (exclusive of pockets) ... 8/6
B953 Smaller bag, in fawn canvas. End pockets as above. 9 1/2 x 5 x 7 ... 8/0
B-1588 Holland. A particularly substantial bag in heavy brown weatherproof fabric. Similar in design to the B953. Lined white canvas. All straps and attachments on stout leather reinforcement. Pocket each end for maps, camera, C.T.C. handbook, etc. Cape loops on top. 12 1/2 x 6 x 5 1/6 ... 21/0



The Brooks B959

Fawn holland bag, similar to B176, but with extra pocket on face for maps, camera, or similar articles. 10 1/2 x 6 x 9 1/2 ... 6/0

BAGS—continued

The 'Clubman' Super Bag



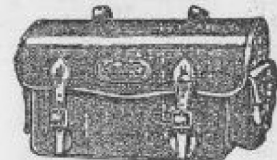
12 x 8 x 1½, two side pockets, 8 x 5 x 1½; double texture brown twill with leather patch at back, base and 1 inch up front; saddle straps pass around cane stiffener, no rivets to break away; when flap is strapped down dust or wet cannot reach contents.

Price 8/6; in black leather, 12/6

Gough Touring

14 x 8 x 4, with two pockets at side (size 7 x 3 x 1) and two straps on front	11/6
10 x 9 x 3½, ditto	8/6
14 x 8 x 4, ditto, without pockets	8/6
12 x 9 x 4	7/6
12 x 0 x 4	7/6
10 x 9 x 3½	7/0
10 x 6 x 4	6/6

Cape carrier straps on top, 1/6 extra (on all models)



Gough's 'Improved' week-end bag of double texture, guaranteed absolutely waterproof. The continuation of the gusset ensures the contents being kept perfectly dry and rigid, whether fully packed or otherwise.

Large size, 12 x 9 x 4 ... 10/0
10 x 9 x 3½ ... 8/0

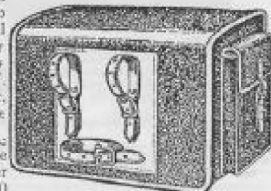


Gough's 10 x 9 x 3½, single strap ... 6/6
Cape carrier straps on top 1/6 extra.

The F. H. Grubb

Special Touring Bag made expressly for us by Messrs. Gough. "Improved" pattern with strap and buckle fastening on inside flaps. Size of bag, 12 x 9 x 5. Two large side pockets, 8 x 4½ x 1, which will take several Bartholomew or Ordnance maps or a small camera. Made of double texture twill and guaranteed waterproof. The back is reinforced with solid leather. Price ... 11/6. Can be supplied with cape carrier on top, 1/6 extra.

Grubb C.T.C. Leather Bag, size 12 x 9 x 6. Two side pockets. Cape carrier on top. Steel bar at back ... 14/0



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

BAGS—continued

Unit Pigskin Touring Bags.



Solid pigskin throughout. Encircling strap enables bag to be used to fullest capacity. Will last years.

Cape carrier loops fitted, no extra.
12 x 8 x 4...12/6 9 x 6 x 4...9/6

By special arrangement with Messrs. Unit Patents we can supply these bags made to any size to suit individual requirements. Write for quotation.

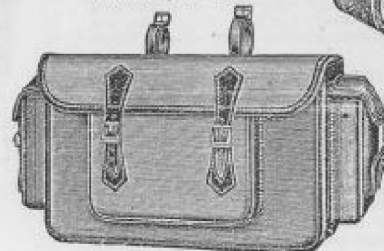


The Service Bag.

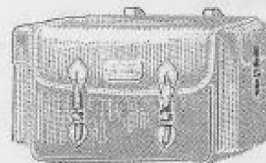
Steel bar at back; 1 side pocket; cape straps on top. In double texture fawn twill. 9 x 7 x 3 ... 4/6

The Twickenham Week-end Bag.

This bag is made of black pig grain leather and is fitted with cape straps on top. 2 side pockets, 6 x 4 x 1 1 front pocket, 8 x 8 x 1 Complete size, 14 x 8 x 5. 2 straps on front. Price 14/0



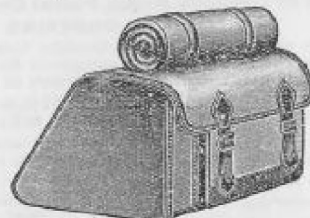
Complete size, 14 x 8 x 5. 2 straps on front. Price 14/0



The Twickenham Junior.

Made in black pig grain leather. Fitted with 2 cape straps on top. 2 side pockets, 5 x 3½ x 1. No front pocket. Complete size, 12 x 7 x 4½. Price ... 9/6

The bags are fitted with double reinforced bar at back.



The Shallow Bag. Made for very low saddle positions, but carries a full kit. Made in black leather, with cape carrier straps on top. 2 side pockets, 5 x 4 x 1½; 1 front pocket, 5 x 8½ x 1. Complete size, 13 x 7½ x 6, sloping to 8½. Price 14/0 Double reinforced bar at back. Strongly bound. Same size & specification, but in twill, 9/6

The Grubb Sportsman

Quite a new bag. Not illustrated. Made in brown waterproof twill with 2 side pockets that will take Bart's Maps, C.T.C. or N.C.U. Handbook. Two cape carrier straps on top. Reinforced with leather at the back and bottom of bag to prevent the mudguard from chafing.

Complete size ... 12 x 8 x 7. Price ... 9/6

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

BAGS—continued.



"Clubman" ANFIELD.

The "Big Capacity" model of the "Clubman" range. Perfect for tandem, for the long tour, or for those who carry camping kit. Its shape and design ensure a snug fit and neat appearance with really Big Capacity.

Size 12 x 8 x 5, widening to 7 1/2 in. at bottom. Two large outside pockets. Inside waterproof pocket, 4 1/2 x 6, for shaving kit, etc. Wide leather patch. Stiffener reinforced by leather right along. Detachable cape straps. Strap and buckle inside flap. "Clubman" saddle attachment.

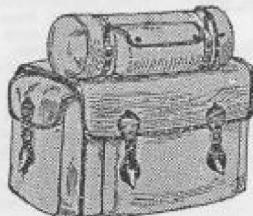
In Khaki Twill ... 12/6
In Black Rexine ... 12/6

"Clubman" SUPER Bag. For the cyclist who wishes to carry a bigger load than the "Special" will hold this bag is ideal. Because of the extra work it is called upon to do it is strengthened for its job.

Large capacity. 12 x 8 x 5. Two large pockets, each 8 x 5 in. Strap and buckle inside flaps. Extra large top, ensuring neat closing when full. Canvas stiffener. "Clubman" saddle attachment.

Divided leather patch runs right up the bag, carrying the strap eyelets and protecting the bag from wear on the guards or brake.

In Khaki Twill ... 8/6 In Navy Twill ... 8/6 In Black Rexine ... 9/6



"Clubman" (Maroon) PEERLESS Bag.

This, frankly, is a luxury. It is intended for the fortunate and sufficiently keen wheel-folk who like to have the best that money can buy. It will do justice to the best cycle on the road, and it will mark out its owner as a person of discernment. Whatever an enthusiast were prepared to pay, he could not buy a better bag. Every "Peerless" bag is sent out in a special wrapper.

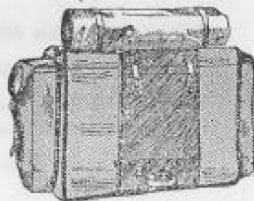
Size 12 x 7 x 5, widening to 7 in. at bottom. Two side pockets, each 7 x 5. Front pouch.

10 x 5. "Clubman" saddle attachment. Strap and buckle inside flaps. Full leather protector-patch.

Tubular Cape and Tool carrier, detachable, and can be used as a separate unit. The neatest arrangement of its kind. Two 3/4 in. leather straps.

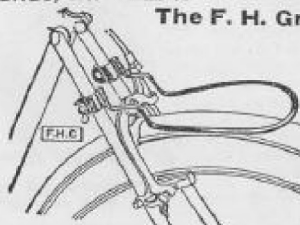
In distinctive "Peerless" MAROON Twill ... 14/0
In Black Rexine ... 15/0

Tubular Cape Carrier only (to fit other "Clubman" Bags), complete with two 20 in. straps. In Twill, 2/6; In Rexine, 3/9



BAGS, &c.—continued

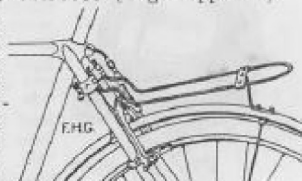
The F. H. Grubb Bag Support (Reg. No. 125239)



Our latest device will prevent your touring bag from rubbing, and eventually breaking the mudguard, or, in the absence of mudguards, from rubbing the tyre. It also relieves strain on the saddle eyes. Detachable in a few seconds. Made and finished entirely in our own works. Being made to fit 1/2 in. round and taper stays, the clip is suitable for all modern machines. Weight under 4oz. Plated ... 1/9 Ebony ... 1/6

The New Grubb Bag Carrier (Regu. Appl. for).

All the features of the bag support, with the advantage of a rigid carrier. You can sling pannier bags from the side frame, use a big week-end bag from the saddle slots, and still have room for a bundle on the after-end. Weight 8 ozs. Easily fixed by boring two holes in the centre of guard, either side of the steel bridge, sliding the cross bar along frame to its best position and tightening up the bolts. Cosletreated and stoved ebony. Fits 1/2 in. round tandem and cycle seat stays ... 2/0



BALL BEARINGS

Hoffman's ... 1 1/2d. 3/2d. 3/6d. 3/2d. 3/4d. 5/6d. per doz.

BATTERIES for Torches and Cycle Lamps

Ever-ready, flat ... 6d. and 8d. All sizes in stock
Ever-ready, No. 800, for cycle lamps ... 9d. each
Bulbs for above ... 5d. each

BELLS—Lucas. Black or plated



L.D.S. No. 65. The most effective bell made. Specially recommended for town riding ... 6/6
Challis No. 50. The clubman's favourite. Simple in action, loud in tone. With 3 in. dome ... 2/9
King No. 61. With 2 1/2 in. dome, Lucas best quality "fixed dome" type. Bell metal dome ... 3/0

BELLS—Lucas (cont.)—Black or Plated.



Burbury No. 82. With 2 1/2 in. bell, metal dome. Very neat appearance. Lucas band clip ... 2/3

Revolving Dome No. 34. Contains no springs and is positive in action. Loud and clear tone ... 5/6

Revolving Dome No. 32. Similar in appearance to No. 34. Gives a succession of clear musical chimes. Will not rust ... 3/6

Burbury No. 73. A smaller bell similar in appearance to No. 82, with 1 1/2 in. bell metal dome. Lucas band clip ... 1/9

Baby No. 62. Similar in appearance to No. 61, with 2 1/2 in. dome. Lucas best quality 'fixed dome' type. Bell metal dome ... 2/0

Steel Dome Bell No. 256. With 2 1/2 in. dome. Fully upholds Lucas's standard of value. Plated only ... 1/4

Steel Dome Bell No. 216. Similar in appearance to No. 256, with 2 1/2 in. dome. One finish only, heavily plated with base in grey ... 1/0

Lucas Bell Parts—Band clip and screw, 4d.; Challis bell springs, 1d.



"Heard all over the world."

BOOKS

'Cycling' Profile Road Book

This indispensable handbook shows a profile plan of the main routes and gradients throughout England, Scotland and Wales. All main roads are included, and heights, distances and turnings marked. A full index is given, and a lighting-up table for various districts is included. Price 2/0



'Cycling Manual'

The cyclist's *trade encyclopaedia*. A reliable guide to the choice of bicycles, tyres, saddles, etc., and deals fully with accessories, adjustments and repairs. Abundantly illustrated. Price 1/0 net.

'Kuklos Annual'

Written by 'Kuklos' of the 'News Chronicle' in his inimitable style. A useful book that is also a joy to read. Contains advice on home and foreign touring, a selection of 'potted tours', pages on equipment and the choice of a mount, and a directory of inns, rest houses, etc. Packed with information. Several beautiful photogravure plates, and many sketches by the author. Price 1/0 net.



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

BRACKET AXLES AND CUPS—Cycle

	<i>Arbor.</i>	<i>Cups.</i>	
Brampton, 1 1/4 in. chain line ...	1/3	5 1/2 d.	left or right
Chater-Lea	2/5	1/3	.. .. .
B.S.A.	2/3	Right 1/0	Left (adjusting) ... 10d.

Tandem Bracket Axles and Cups—Chater-Lea

Front Eccentric Sleeve ...	7/10	Bracket Cups, fixed or adjusting	1/3
Front Eccentric Axle ...	3/4	Cup Lock Rings ...	6d.
Rear Bracket Axle ...	4/0		

Brampton

Adjusting Cup ...	each 11d.	Eccentric Sleeve ...	each 5/9
Cup Lock Rings ...	10 1/2 d.	Front Eccentric Axle ...	1/5
Eccentric Bracket Bolts ...	7d.	Rear Bracket Axle ...	1/6
		Flanged Cup ...	1/0

BRACKET LOCK RINGS

Brampton ...	3/4	B.S.A. ...	6d.	Chater-Lea ...	6d.
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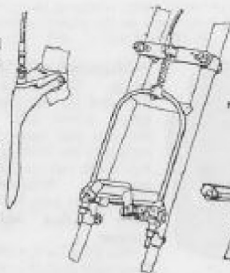
BRAKES—The McMillan

The last word in Cycle Brakes (Patent No. 261,868).

For use with Westwood Section Rims only. Pull-on action, yet with quick release brake pads for wheel removal.

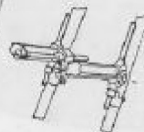
It has the sweetest action—with greater power than any other rim brake.

Brakes supplied in black or nickel finish.



To remove your front wheel, pull brake pads back from behind front forks and turn round between spokes in inverted position.

All McMillan brakes are fitted with British waterproof outer casing and heavy inner cable.



To remove your rear wheel, pull both brake pads out on their slides and turn away from rim.

INSTRUCTIONS FOR FITTING:

Front Brakes—Drill 1/4 in. clearance hole in centre of fork crown and fix by means of bolt and guide clips, otherwise as per rear.

Rear Brakes—Take out bolts of horse-shoe guide clips and bridge clips—spring on to frame with cable attached, then fit lever by band-clip bolt in correct position, connect cable and adjust by the two hexagon screws on lever block.

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

BRAKES (continued)—**The McMillan**

PRICES:

Front Cycle Brake , for Standard "D" Section Fork Blades ...	8/6
Rear Cycle Brake , for Standard Round Seat-stays ...	8/6
Rear Tandem (Double Gents' only) , for $\frac{1}{2}$ in. Round Seat-stays ...	10/6

Postage *fd.* extra. All brakes supplied in sealed cartons.

McMillan Brakes and Dunlop or Roman Narrow Section Rims make an ideal combination. Rims have been designed to suit Brakes; now you have Brakes to suit the best rims.

Manufactured and Marketed by **F. H. Grubb, Twickenham.**

Grubb Tandem Chain Stay Brake, made for round or D section chain stays (please specify) with pull-on action. Slotted guides for quick release of wheel. Heavy inner wire and waterproofed outer casing. For front H bar unless otherwise stated.

Price 10/6

Resilion Cantilever—All black or plated

Front Cycle	11/6
Rear Cycle	10/6
Front Tandem	12/6
Rear Tandem	12/6

'Crabbe' front pull-up with short lever ... 2/6

Phillips' Brakes

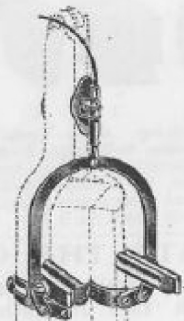
Toggle front No. 20 with short lever ...	2/8
Ditto No. 21 with short cranked lever ...	2/8
Ditto No. 22, cable-operated ...	3/4
'Sellwell' Calliper with central pull (front or rear) ...	3/8
No. 23 Rear Toggle ...	3/8



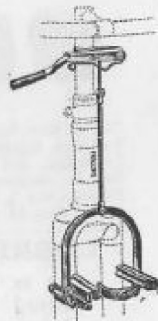
Resilion Cantilever



Phillips' 'Sellwell' Calliper



Phillips' No. 23 Rear



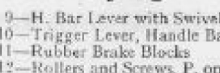
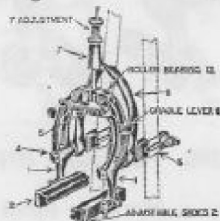
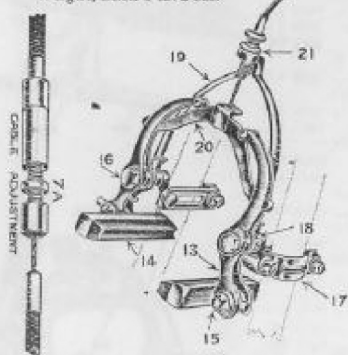
Phillips' Toggle No. 21

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

Brakes—continued



Weight, Front 1 lb. 1 oz.
Weight, Back 1 lb. 2 ozs.



Constrictor 'Boa' Brakes and Brake Parts (Foreign)

Front Brake, Single each	5/6
Front Brake, Tand m	5/9
Rear Brake, Single	6/0
Rear Brake, Tandem	6/6
13—Half Horse Shoe	pair 2/4
14—Shoes less Rubbers	1/2
15—Shoe bolt and Nut	1/4
16—Nut for holding Horse Shoe on to Clip	pair 6d.
17—Fork Clips for O, D or Rear	pair 1/6
18—Spring	each 6d.
19—Stirrup	1/6
20—Cradle Lever	6d.
21—Adjusting Screw	4d.
21a—Cable Adjustment Bolt and Nut	1/6
22—H. Bar Lever with Bolt and Nut	1/0
23—H. B. Clip ditto	1/0

Cables for Boa Brakes

including Inner Wire, part No. 21, and soldered Nipples.

Front, Single	each 1/3
Front, Tandem	1/6
Rear, Single, Gents'	2/4
Rear, Single, Lady's	2/6
Rear, Tandem, Gents'	3/0
Rear, Tandem, Lady's	3/6
Rear Cable Adjustment, 21a extra	1/0

Constrictor Brakes and Brake Parts

Weight: Front, 1 lb. 1 oz.; Rear, 1 lb. 8 ozs.
Plated or dull black finish ("B" and "P")

Front Brake, single, B. or P.	each 9/6
Front Brake, Tandem, B. or P.	10/0
Rear Brake, single, B. or P.	10/0
Rear Brake, Tandem, B. or P.	11/0
1—Half Horse Shoe, B. or P.	pair 3/0
2—Shoe less Pad, B. or P.	1/2
3—Fork Clips for either Bark or Front, to fit O or D forks, with bolt or nuts, B. or P.	2/0
3a—Yokes with adjustable lugs	3/0
4—Hexagon Nut for Holding Horse Shoe into Clip, P. only	8d.
5—Spring, B. or P.	each 4d.
6—Stirrup, B. or P.	2/5
7—Stirrup Screw Adjuster with round nut, P. only	6d.
7a—Cable Adjustment, P. only	1/6
8—Cradle Lever	8d.
9—H. Bar Lever with Swivel, P. only	2/0
10—Trigger Lever, Handle Bar Clip, B. or P.	2/6
11—Rubber Brake Blocks	pair 4d.
12—Rollers and Screws, P. only	8d.

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

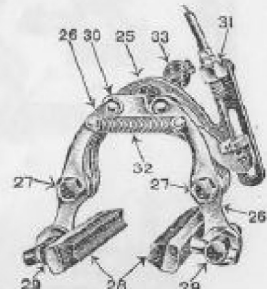
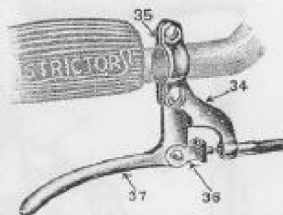
Brakes—continued

Cables, including inner wire and part No. 7 Soldered Nipples.

Front Single	each 1/6	Rear Single, Lady's	each 3/0
Front Tandem	1/6	Rear Tandem, Gent's	3/6
Rear Single, Gent's	2/8	Rear Tandem, Lady's	4/0
Rear Cable Adjustment, 74, extra		each 1/0	

COBRA RACING BRAKE (FOREIGN)

Front brake, single, B. or P.	each 6/9
Rear brake, single, B. or P.	each 7/0
Brakes in Chromium finish	extra 2/0
25—Chassis with bolt and nut, B. only	
26—Half Horse shoes, B. or P.	pair 1/4
27—Hexagon bolt, P. only	pair 8d.
28—Shoe less brake block, B. or P.	pair 1/2
29—Shoe bolt and nut with two washers, P. only	pair 1/2
30—Lever arm, P. only	each 8d.
31—Chassis adjusting screw and bolts, P. only	each 8d.
32—Spring B. or P.	each 4d.
33—Bolt and nut for Chassis, front or rear	each 4d.
33a—Chassis with clip bolt and nut, B. only	each 1/0
33b—Lugs and hexagon bolts No. 27	pair 2/6
34—Trigger lever, half only, B. or P.	each 1/0
35—Half clip, B. or P.	each 8d.
36—Swivel, B. or P.	each 2d.
37—H bar lever and Swivel, B. or P.	each 1/8
Brake blocks, same as Constrictor brakes	
Outer cable and inner wire, same as for Constrictor brakes (B. for Black finish. P. for Plated.)	



WASHING THE MUD OFF!

Only a Machine fitted with the GRUBB patented system of grease gun lubrication can be cleaned this way.

LUBRICATE THE GRUBB WAY!

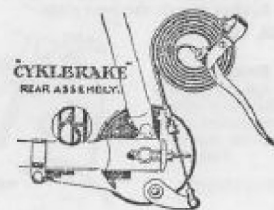
Cykylbrakes. *Special Note.*—Used a great deal on Grubb Tandems, and are fitted with quick release arrangements to facilitate removal of both front and rear wheels.

See *Tandem Catalogue.*

Brake Pads for Callipers—per pair

John Bull oversize	8d.
Standard	6d.
Crabbe and Bowden Magnet	6d.

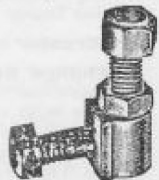
Cykylbrake for front or rear wheels. A very efficient brake of similar design to that used on motor cars. A cam separates two shoes to which are fixed strips of 'Fendo' fabric lining, and brings them into contact with an outer drum. Can be used with fixed or free wheel. Hand operated from roller lever or cable. Recommended for carrier cycles and tandems. Hub brake, complete with cable and lever, as shown.



Front Cycle	17/8	Rear Cycle	16/10
Tandem 16/8		Tandem 16/1	
Quick release fittings if required 3/0 extra			

Brake Parts

Centre Bolts with nuts and washers	5d. each
Bolts and Nuts for levers	3d. "
Bolts and Nuts for strap stays	3d. "
Stop and Nut for cable adjustment	1/0 "
Tension Springs	2d. "
Bowden Calliper Levers, ordinary or R part	1/8
Inner Cable	1d. per foot
Waterproof Outer Cable	6d. "



Constrictor Brake Parts—see page 11

John Bull Brake Blocks



Canvas case, hard wearing. No. 1—Round Crabbe, 2 Narrow Flat Crabbe, 3—Large Square Crabbe, 4—Raleigh, 5—B.S.A., 6—Small Square Crabbe, 7—Rudge. *Not illustrated:* 8—Sunbeam front, 9—Sunbeam rear, 10—Taper Top for standard shoe, 11—Triumph, 12—Elswick, 13—Enfield, 14—Calliper. Patterns Nos. 1, 2, 6 and 10 are correct for calliper brakes when Endrick rims are used. Price 5d. per pair, except No. 3, 7d.

LUBRICATE THE GRUBB WAY!

It is worth while to have your Bicycle fitted with this revolutionary method of lubrication (See Leaflets)

Pelissier Brakes (foreign)

Plated or Oxidised, front cycle	3/6	} uncovered cables
" " rear cycle... ..	3/6	
" " Tandem rear	4/6	
Covered Cables—Cycle 1,0 extra, Tandem 1,6 extra		

Fibrax Brake Blocks—Made in both hard and soft compositions.



- | | |
|-------------------------------|---------------------------------|
| No. 250 for Endrick Rims | No. 166 for Crown Calliper |
| " 105 " Bowden Calliper | " 243 " Endrick Rims |
| " 21 " Vox Populi | " 249 long, for Pelissier Rims |
| " 237 " McMillan Beakes, rear | " 249 short, for Pelissier Rims |
| " 51 " McMillan Beakes, front | |

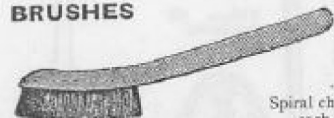
Fibrax—Calliper size, specially prepared for wood rims 9d. per pair

Ditto, steel ditto 5d. "

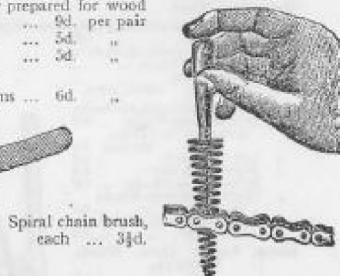
Ferodo—Calliper size 5d. "

Hermetic—Recommended for Roman rims ... 6d. "

BRUSHES



Handy cycle brush with bent-wood handle ... each 4½d.



Spiral chain brush, each ... 3½d.

The GRUBB business grows like a Schoolboy—
 You can see it grow
 Sure proof that Customers acknowledge the
SERVICE - QUALITY
 and **SQUARE DEALING**
 - Methods of the Firm -

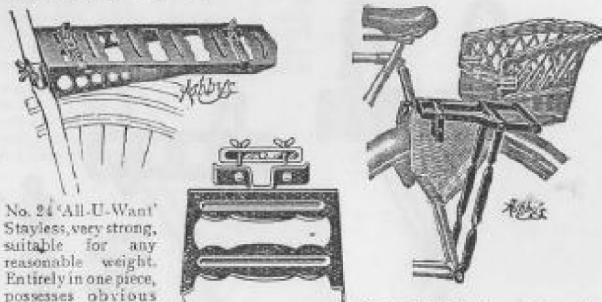
F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

CARBIDE

Club, 1lb. tin ... 7d.	Chemico, 1lb. tin ... 7d.	Standard, 1lb. tin ... 8d.
" ½lb. tin ... 4½d.	" ½lb. tin ... 4½d.	" ½lb. tin ... 4d.

Carbide cannot be sent by post.

CARRIERS—Ashby

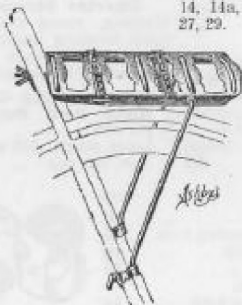


No. 24 'All-U-Want' Stayless, very strong, suitable for any reasonable weight. Entirely in one piece, possesses obvious advantages. Fixed with one bolt and wing nut, 12½ x 5, with two leather straps, enamelled 3/0

No. 24a with special clips to suit machines with rear stay brakes, enamelled only... 3/0

Illustration shows new Calliper Brake Fitting attached to 'Princip' Carrier. Suits any machine with rear stay brakes. Can be attached to the following Ashby Carriers at extra charge of 6d. Nos. 5, 6, 6a, 6b, 6c, 8s, 9, 10, 14, 14a, 22a, 23c, 23, 27, 29.

No. 5 'Babs-Car,' a child carrier serving equally well either at front or rear of cycle. The conversion from either position is very simple. Every 'Babs-Car' of this type is supplied with fittings complete to suit either position. The front fittings are adjustable for any size frame. Note foot and leg rests giving extra comfort and protection to child. 50in. leather safety strap with each. Price, complete 17/6



No. 6b 'Princip' similar to illustration on left but 12½ x 5, can be supplied with D, oval or round stay clips, two best quality leather straps, Black 2/3, Green 2/6, Plated 2/6

No. 6a, 'Lito,' aluminium, light, strong, rustless (illustrated), 10 x 4, weight 10½oz., with two best quality leather straps 3/0

WHEN ORDERING

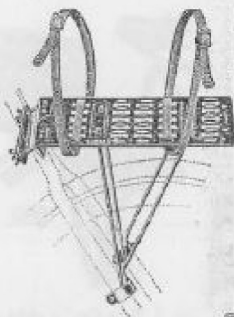
please be as explicit as possible. Doubtful instructions or an insufficient address always means delay and not infrequently disappointment.

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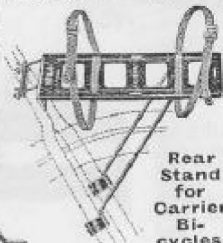
CARRIERS—continued

Bowden Heavyweight, fixes to spindle ... 2/6
 Pearl Light Wire Mesh ... 1/3

Child's 'Universal' (lady's or gent's machine), for child up to six years. Shaped back rest and adjustable foot rests. ... 7/6



No. 81 is Lucas's best. The double stays make it absolutely strong and rigid. Fitted with special clips ensuring a horizontal position when attached to stays of various angles ... 7/6

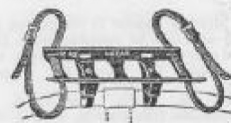


No. 81 is a strong and well-made article at a moderate price. Easily fixed... 5/9



LUCAS SPRING CARRIER No. 70 OPEN

Light in weight and, when opened, firmly grips any parcel placed in it. Fitted Lucas band clip. Weighs 4oz. Plated ... 2/0



Lucas Carriers
 No. 42B 'Bundle' Carrier is suitable for carrying a cape or similar parcel ... 3/9

Rear Stand for Carrier Bicycles, spindle fitting as illustrated, 4/5



Carrier Straps
 Webbing, plated ends and quick fastening buckles 4d., 6d., 8d. and 10d. each.
 Leather, 4d., 6d. and 8d. each.

Carrier Stay Clip Nuts and Bolts, per pair ... 4d.
 Lucas, plated, with wing nut, per pair ... 1/0

CHAIN PARTS—Links

Renold Spring-Clip only	1d.
Coventry Elite Double-Cranked Connecting Link	6d.
" Double Connecting Link	4d.
" Spring-Clip Link	3d.
" Three Spare Double-Cranked Connecting Link	4d.
" " Spring-Clip Link	2d.

B.S.A. S Link, 3d.



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

CHAIN PARTS—continued.

Brampton M Cranked Link 3d.
 Standard Cranked Link 2 1/2d.



Renold Double-Cranked Link, 4 1/2d.



Renold Spring Clip, 1 1/2d.



B.S.A. Cranked Link, 4d.

Bolts—each
 Brampton M and Standard, 1 1/2d.
 B.S.A. ... 2d.



Renold Double Link, 4d.

CHAIN LUBRICANT—Chemico, 6d.
 Club ... 6d.

CHAIN WHEELS & CRANKS—Cycle. One pair Cutters included in each set of Grubb, B.S.A., Chater-Lea, and Williams Chain Wheels and Cranks

CHAIN WHEELS & CRANKS—Cycle

The F. H. Grubb Special Lightweight Fluted Cranks, made, finished and plated in our own works. Best quality steel. Heavily plated on copper or stoved black on Corlettised base. Weight only 1lb. 8oz. per pair. 3-arm pattern, 4 1/2 or 7 1/2, per pair 10/0. 5-arm pattern, 6 1/2 or 7 1/2, per pair 10/0.

Grubb Chain Wheel	5/0
B.S.A. Chain Wheels and Cranks, 42, 44, 46, 48t per set	19/0
" Left Hand Crank, 4 1/2 or 7 1/2	5/6
" Right Hand Crank	5/6
" Chain Wheels	7/6
" 52t P.D. extra	7/6

Chater-Lea Complete Set, 61 Cranks, 36 to 48 Chain Wheels ... 15/0
 Extra for 7in. Cranks.
 " Left Crank only ... 4/6
 " Right Crank only ... 5/0
 " Extra for 7in. Cranks ... 6d.
 " Chain Wheel only, 4 1/2 to 4 1/2, CL design ... 5/6
 " Chain Wheel only, 46 to 46, 3-arm type ... 6/6

Only 5-screw Chain Wheels.
 Weight 4oz. each
 42t, 1/2 x 1-8 14/8 40t, 1/2 x 1-8 15/4
 44t, " 20-0 42t, " 16/8
 Also obtainable in 1 1/2, 1 3/8, 2 1/4, 2 3/4 and 2 7/8.

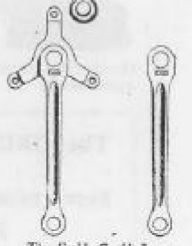
Williams 5-screw, best quality, 4 1/2 or 7in. cranks, 43 to 52t inclusive ... 2/6
 Ditto, 42t, 2/6
Williams 3 arm Riving Set 7/6
 " Chain Wheel only, 4 1/2 to 5 1/2 inclusive 3/6
 " Left Crank only ... 2/0
 " Right Crank only ... 2/0



Williams Best Quality 5-Screw



B.S.A. Chain Wheel Set



The F. H. Grubb 3 arm Fluted Crank

Tandem—Chater-Lea Chain Wheels (see above).
 Cranks (see above).
 " Aluminium Patent Adaptor for coupling double chain wheels, including three bolts ... 3/4

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

CHAIN WHEELS AND CRANKS (Cycle)—continued

Brampton Chain Wheel Sets, including double chain wheel, front chain wheel, two pairs cranks and cotters, 42 x 42t or 46 x 42t, set complete ... 30/0
Chain Wheel Screws—Williams ... 1d. each. Chater-Lea C21... 2d. each
 B.S.A. ... 2d. each.

CHAINS—

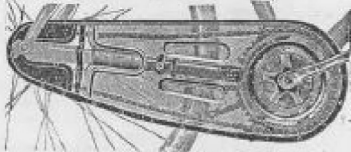
Renold Roller, $\frac{3}{8} \times \frac{1}{2}$ & $\frac{1}{2} \times \frac{1}{16}$ 8/3
 " Improved, $\frac{1}{2} \times \frac{1}{2}$ & $\frac{1}{2} \times \frac{1}{16}$... 3/6
 Block, $1 \times \frac{1}{2}$ & $1 \times \frac{1}{16}$ 10/10
Coventry Elite, $\frac{1}{2} \times \frac{1}{2}$ or $\frac{1}{2} \times \frac{1}{16}$ 5/0
 " Three Spire... 3/3

Brampton Standard, $\frac{1}{2} \times \frac{1}{2}$ or $\frac{1}{2} \times \frac{1}{16}$ 3/3
 " " " " " " " " 5/0
B.S.A. 58in. ... " " " " 1/0
 60in. ... " " " " 1/0
Appleyby's $\frac{1}{2} \times \frac{1}{2}$ or $\frac{1}{2} \times \frac{1}{16}$... 3/0

CHAIN COVERS—

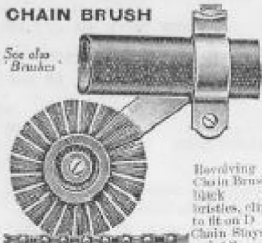
Note—For gearcases and chain guards cranks must be fitted 'gearcase clearance.'

Dover Chain Guard, Transparent ... 4/9
 Ditto, Exonite ... 4/6



CHAIN BRUSH

See also 'Brakes'



Handing Chain Brush back bristles, clip to fit on D Chain Rings each 1/6

Bluemel's 'Featherweight' Chain Guard for ladies' and gents' machines. Fitted with extending end piece for machines with centres varying from 18in. to 20 1/2in. Black Celluloid ... 5/3 Transparent... 5/0



Clarendon's Chain Guard, with black enamelled frame and transparent celluloid panel with plated metal beading. 2/3

Chain Gears, (Cyclo 2 and 3-speeds).

The 'Cyclo' Gear allows for any ratio of gears, which can be altered at will by changing detachable sprockets. Gear changing takes place while pedalling so that no power is lost in running from one gear to another.

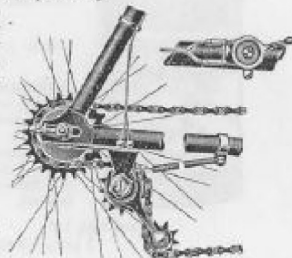
Cyclo 2-speed—
 Cycle size ... 17s. 0d. each.
 Tandem size ... 18s. 6d. "
Cyclo 3-speed—
 Cycle size ... 20s. 0d. each.
 Tandem size ... 21s. 6d. "

The Super Cyclo with Duralumin parts where possible, 4/6 extra to any model.

Sprockets made to following sizes—

Small. 13, 14, 15, 16, 17, 18,
 Middle. 17, 18, 19, 20, 21, 22,
 Large. 18, 19, 20, 21, 22, 23, 24, 25, 26, 28.

Please specify sprocket sizes required when ordering.

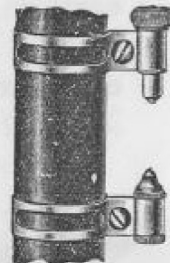


CLIPS

Terry's Spring Steel Pump Clips, push-on pattern, blue, pair ... 8d.
 Plated ... 10d.



Terry's Tennis Racket Carrier, fixed to fork by wing-out and bolt, automatic batz-lined clip, plated, each ... 5/0
 Enamelled ... 2/6



Bluemel's 'No-weight' Spring Pump Clips, nickel plated or black. Four sizes, standard, 1 1/4in. Per pair ... 6d.

Braced-on Pump Pegs are Standard on Grubb Bicycles and Tandems.



Terry's Band Clips, Plated, pair ... 3d.
 Bronzed, pair ... 3d.



Terry's Combined Cycle Lock and Trouser Band, pair, bronzed finish ... 5d.
 Plated finish ... 5 1/2d.

Terry's Trouser Hooks, per pair 6d.



COGS, Hub

Standard, 12-22, $\frac{1}{2} \times \frac{1}{2}$... 1/0
 " 14-22, $\frac{1}{2} \times \frac{1}{16}$... 1/2

B.S.A., 14, 15, 16, 17, 18, 20 ... 1/5
 " 22 ... 1/0

Chater Lea, $\frac{1}{2} \times \frac{1}{2}$ —
 13-18...1/3 19-20...1/3 21-22...2 2

THE F. H. GRUBB COG REMOVER



Here is a tool that will quickly and efficiently remove the stiffest cog without strain. The F. H. Grubb Cog Remover is made to last as long as ever you will want to use it and a bit longer. Will take all sizes of cogs. The handle is long enough for effective leverage and short enough to go into the average week-end bag. Change your cogs without damaging the teeth.

Made entirely in our own works, price ... 2/0

Special Steel Punches for removing hub lock rings. 6d. each

Cog Lock Rings—see 'Hubs'

COTTERS, Crank

Standard pattern ... 2d. each	B.S.A. ...	4d. each
Williams ... 3d. "	Chatter-Lea ...	6d. "

CYCLE STANDS

Hodge's, to drop back wheel into ...	4/3
Samson Folding Cycle Stands ...	3/3

**THE F. H. GRUBB
CYCLOMETER CLIP**



Made entirely in our own works. Enables your front wheel to be taken out without disturbing the cyclometer. Fitted in a few seconds. Solid brass, heavily plated or ebony finish to suit your fork ends. Approved by Veeder's London representative. At present only made for forks tapering to round. Will fit all modern machines, whether for single or tandem, each ... 1/3

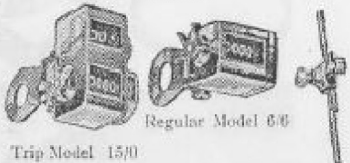
CYCLOMETERS

New Departure

Security Model for hub attachment—out of the way—out of danger. Registers tenths of a mile up to 10,000 miles and repeats ... 6/3
Regular Model... 5/3
Strikers for either model 6d
Brackets " " 1/0

For 26in. and 28in. wheels. State which when ordering.

Veeder



Trip Model 15/0

Regular Model 6/0

Striker for Veeder 6d.

Fit the F. H. Grubb Registered Cyclometer Clip—see above.

Speedometers and Trip Recorders

For registering both speed and mileage. Leedal E.D. ... 17/6

DRESS CORDS

Pike line, very best, dark green, per hank of 24 yards ... 2/3
Waterproof cord, assorted colours, hank ... 6d.
Fan Dress Cords, snap hoop, elastic ends (ready to hook on) pair 1/3
Dress Cord Quadrants
For spindles, 8-hole, plated, pair 4 1/2d. and 2d.



Brackets to suit Veeder 8d.

DRESS SHIELDS

Bluemel's Transparent Celluloid per pair 5/8

Genuine Veeder 1/0

Enamels—Robbialac



No. 1—2-pint size 2/3; No. 2—1-pint size 3/0; in the following colours—
Emerald Olive Service Green
Humber Buff Panhard Red Singer Blue
Humber Green Raleigh Smoke Whitty Black
Indian Red Royal Mail Red Belsize Cochinette
Matchless Grey Scott Purple and others
Black No. 0 size 1/6; White No. 1 size 2/0; White No. 2 size 2/9; Transparent No. 0 size 1/3; Transparent No. 1 size 2/3; Transparent No. 2 size 3/0; Transparent No. 0 size 1/0; Aluminium No. 0 size 1/3; Aluminium No. 1 size 2/0.

Robbialac Outfits. Supplied in twelve colours.
Cycle size No. 1s (Black only) 5/6 Cycle size No. 1a (Black only) 7/6

Brushing Robbialoid. Made in Black, White and the following range of twelve colours, all of which intermix—

Ivory	Yellow	Bright Green	Deep Green	Brown	Signal Red
Silver Grey	Orange Jade	Turquoise	Azure Blue	Dark Red	
Pastel Shades can be obtained by adding a little of any colour to White.					
Prices as Robbialac above. Colour card upon application					
Club Black 7 1/2d. and 1/3			Judge Black 6d. and 10d.		

Chemico Enamels and 'Anti-Rust' Paint and Varnish

'Tourist' Black Enamel ...	6d. and 1/0 tins
Quick-drying ditto ...	1/0 "
Cylinder Black (dries flat) ...	10 1/2d. "
Coloured Enamels (all colours) ...	9d., 1/6 and 2/9 "
'Anti-Rust' Transparent Varnish for plated parts ...	1/0 and 1/6 jars
Aluminium Paint ...	9d. and 1/6 "

Celamel Celluloid Brushing Lacquer in black, white, glaze (or varnish) and the following colours:—

Cream	Motor crimson	Champagne
Dark motor blue	Motor primrose	Deep Imperial green
Government red	French grey	Motor scarlet
Saxe blue	Middle green	Motor brown

Dries in one hour

Prices: 1 pint tins, 2/3; 1/2 pint, 1/0; 1 pint, 7/0 each



Rollsamel is a high quality enamel made on varnish lines. Dries hard with a perfect gloss in 12 hours. Will not crack or chip and resists mud, rain, grease and oil. Available in black, white and the same colours as Celamel (above).

1/2 pint tins, 1/6 1/2 pint, 2/6
1 pint, 4/3 each

Finishing Varnish (or Transparent Finish) same prices

Colour card of both Rollsamel and Celamel on application

ENAMELS (continued).

Celamel Sundries

Special Rubbing Paper, 240 grit for rubbing down before painting, 400 grit for rubbing down on just coat to remove brush marks ... per sheet 6d.

Special Solvent, for cleaning Celamel vulcanized brushes after use and for thinning Celamel Brushing Lacquer and Celamel Celluloid Undercoat if required. Can also be used for washing the hands and for removing paint where a job has to be completely stripped.

$\frac{1}{2}$ pint tins (approx.) 1/3 $\frac{1}{4}$ pint tins (approx.) 2/0

Celluloid Stopping, for stopping up cracks and crevices before applying Celamel Undercoat or Brushing Lacquer.

1lb tins (approx.) 2/0 2lb tins (approx.) 3/0

Enamel Brushes

Robbials, 1in., 1 $\frac{1}{2}$, 2in., 2 $\frac{1}{2}$ in., 3in., 4in., 5in., 6in., 7in., 8in., 9in., 10in., 11in., 12in., 14in., 16in., 18in., 20in., 22in., 24in., 26in., 28in., 30in., 32in., 34in., 36in., 38in., 40in., 42in., 44in., 46in., 48in., 50in., 52in., 54in., 56in., 58in., 60in., 62in., 64in., 66in., 68in., 70in., 72in., 74in., 76in., 78in., 80in., 82in., 84in., 86in., 88in., 90in., 92in., 94in., 96in., 98in., 100in.

EYE SHADES.

Blusmel's New Green Transparent Anti-Dazzle Shade for Cycling, Sports, Office use, etc.

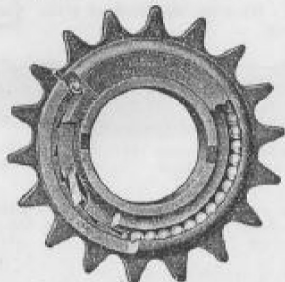
No. 1, with self-adjusting light spring head band ... Price 2/0

No. 2, with adjustable band and sliding buckle (as illustrated) ... Price 2/0

FRAME PROTECTORS

(or Buffers), "John Bull."

For $\frac{1}{2}$, 1 and 1 $\frac{1}{2}$ in. top tubes ... 7d each



The Villiers De Luxe Free Wheel

FREE WHEELS

Brampton All-Ball

$\frac{1}{2}$ in. x 16, 17, 18, 19, 20 and 22t. ... 3/6
 $\frac{3}{4}$ in. x 15, 16 and 17t. ... 3/6
 1in. x 8, 9, 10 and 11t. ... 3/6

Villiers

$\frac{1}{2}$ x $\frac{1}{2}$ and $\frac{3}{4}$ in. x 16, 17, 18, 19, 20 and 22t., Model de Luxe ... 3/6

Conventry Elite

$\frac{1}{2}$ x $\frac{1}{2}$ in. x 16, 17, 18, 19, 20, 21 and 22t. 3/6

The Villiers Free Wheel is Standard on F. H. Grubb Bicycles and Tandems.



CONSTRICTOR FREE WHEEL REMOVER "CONGEE."



Slots in the Free Wheel you wish to remove.

This is considered to be one of the neatest and simplest devices for removing Free Wheels.

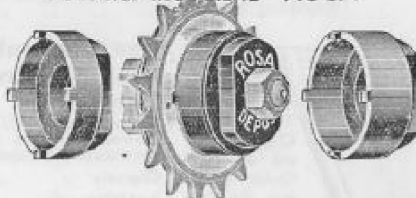
It will be seen that there are slots for four Pegs, but only two are used at the time, according to the size of the

"CYCLO" FREE WHEEL REMOVERS.

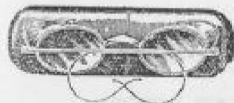
Four-peg standard pattern, two-peg standard pattern, four-peg deep standard pattern, for "Cyclo" Free Wheels

1/3 each

DÉMONTES ROUE LIBRE "ROSA"



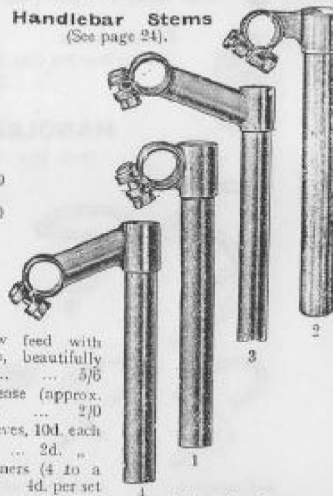
GOGGLES



Wire frame with gauze sides, smoked or clear glass (in case), illustrated ... 1/9
 Imitation tortoiseshell rims, smoked glass ... 1/0

Handlebar Stems

(See page 24).



GREASE GUN LUBRICATION

(Grubb System)

Spare parts.



Grease Gun, screw feed with flexible connection, beautifully finished ... 5/6
 Large tubes of grease (approx. 1 $\frac{1}{2}$ lbs.) ... 2/0
 Bottom bracket sleeves, 10d. each
 Bracket lubricators ... 2d.
 Head washer retainers (4 to a set) ... 4d. per set
 Felt washers (2 to a set) 3d.
 Head, hub and pedal lubricators 2d. each

Adjustable Stems are Standard on Grubb Cycles and Tandems, in of the patterns now illustrated.

HANDLEBAR STEMS,

Adjustable Plated.

No. 1—8in., plain lug	... 3/3
No. 3—8in., 2in. upward extension	... 4/
No. 2—8in., 1in. extension	... 4/0
No. 4—8in., 2 1/2in. flat extension	... 4/0

F. H. Grubb Curved Handlebar Stems

Black or Plated,
3/9 each
With expander bolt,
1/0 extra



Expanding Bolts, any pattern, extra	... 9d.
Major Taylor Handlebar Stem and Clip, 8in. stem	... 5/0
Expanding Bolt, extra	... 9d.



This T-pin & Clip is Standard on all Grubb Tandem Models.

The F. H. Grubb Special Tandem Seat Pin and Handlebar Clip

(Plated)

Seat pin diameter 1 3/4 in. An underneath 'feather' prevents clip from turning. Offers a variety of positions for rear rider. 10in. long 7/6; 12in. ... 8/3
Clip only ... 3/3
Seat Pillar only ... 10in. 4/3; 12in. 5/0

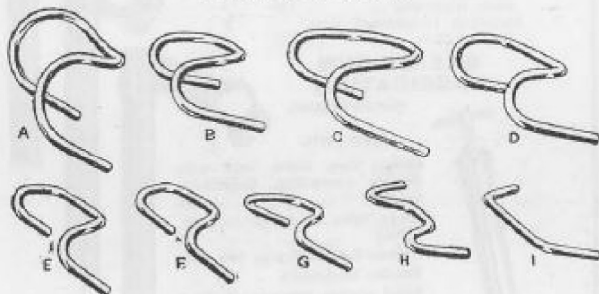


Chater-Lea

Tandem Seat Pin Clip, 1 1/2 x 3/4, plated	... 2/8
" " " 1 3/8 x 1 1/8, plated	... 2/8

HANDLEBAR BENDS

With 1/2in. brazed-on ferrule.



A—Continental	D—Shirley (wide top) 6in. drop	G—North Road 2 1/2in. drop
B—Marsh Level Grip	E—Shirley 5in. drop	H—North Road Flat
C—Highgate	F—Shirley (narrow top) 4in. drop	I—Flat

Any of these bends can be supplied, Cosletted and Stove Enamelled Black, 3/6

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

HANDLEBAR BENDS (continued).

Prices for Plated and Unplated Bends

Drop	Width	Drop
16in. Continental 7in. ... 4/3 ... 2/6	17in. Shirley 4, 5 & 6in. ... 4/3 ... 2/6	4in. ... 4/3 ... 2/6
18in. Continental 7in. ... 4/3 ... 2/6	20in. Shirley 4 & 5in. ... 4/3 ... 2/6	18in. North Road 2 1/2in. ... 4/0 ... 2/3
13in. Marsh ... 4/3 ... 2/6	20in. North Road 2 1/2in. ... 4/0 ... 2/3	16, 18 & 20in. North Road ... 4/0 ... 2/3
15in. Marsh 5 or 6in. ... 4/3 ... 2/6	17in. Highgate 7in. ... 4/3 ... 2/6	12in. Special Bend ... 4/3 ... 2/6
17in. Marsh 5 or 6in. ... 4/3 ... 2/6	16in. Shirley 4in. ... 4/3 ... 2/6	

Accles and Pollock 15 and 17in. Marsh and 16in. North Road celluloid covered bends ... 5/6

Other Celluloid Covered Bends 5/0 extra on price of unplated bends.

NOTE.—Adjustable clip must be fitted before bend is covered, except Accles and Pollock C.C. bends referred to above.

HANDLEBAR GRIPS—Constrictor



The Long Anti-Shock, 7in. long. Identical for all riders who grip the bars at various positions.

Will fit 1/2in. and 1in. bars. Pink or blue-black in colour ... per pair 3/6

The Small Anti-Shock, introduced chiefly for ladies, is also suitable for those riders who hold their bars at the top. 4in. in length, in pink or blue-black colours. Will fit either 1/2in. or 1in. bar ... Per pair 2/3

The Medium Anti-Shock is the original and similar, except for size, to illustration above. The recognised favourite among road men for all-round use. Length 5in. In pink or blue-black. For either 1/2in. or 1in. bars, per pair 3/3

All Anti-Shock Grips should be fitted with the special fixing tape supplied with each pair.



The Long All-Sponge Grip. A flexible grip of equal thickness all round, without fabric insertion. Suitable for all who cannot hold a large grip. 7in. long, blue-black or pink. 1/2in. or 1in. bars. Fixed by simply slipping on ... Per pair 2/6

A new All-Sponge Grip which is practically of the same thickness and circumference as our original 7in. grip, but is 5in. in length. It will be seen that the rubber is of equal thickness all the way round. Will fit either 1/2in. or 1in. bars. Obtainable in colours, pink and blue-black ... Price per pair 2/0

JOHN BULL—

J.B. Sleeve Grips. The growing practice among clubmen to fit grips on the end of handlebar sleeves has induced the makers to introduce this complete fitting. No fixing materials required ... per pair 2/6

J.B. Red Sleeves, 17in. long ... 1/3

Black ditto, specially made for F. H. Grubb, 17in. long ... 1/3

J.B. Racing Grip, a cushion grip and short sleeve combined, total length 6 1/2in., in red rubber, to fit 1/2in. bars. No fixing tape required ... 1/3

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

HANDLEBAR GRIPS

(continued).

Shockstop Grips



RACING
M.P.H. LENGTH 2 1/2 in. 7/8

Racing Grips, No. 11,
Red or Grey. Length 7 in.
Per pair ... 1/3

Sleeve Grips,
No. 12, Finest
Quality Rubber,
Splendid
value. Red only. Length 17 in. ... per pair 1/6

Long Super
Sponge, No.
20. Grey,
fawn or red.
Length 7 in.,
per pair 2/6



Short Super Sponges, No. 18.
Similar to No. 20 but shorter.
Grey, fawn or red. Length
5 in. ... per pair 2/0

Super Sports,
No. 23. Combine
softness
with elasticity
and proving
very popular
with club riders.



Grey, fawn or red. Length 7 in. ... per pair 2/6

Dunlop Grips,
Basket pattern,
per pair ... 1/3

Red Racing, per pr. 1/8 2/6



Chater-Lea Cycle Tandem
Head Clips (new registered
design with detachable
race) ... each 3/6 4/6
Frame Races 4d. 8d.

Head Lock Rings... each 10d. 1/0
Plated Crown Races .. 7d. 1/2
Top Screw Races for
Colonial head 1/0 —



J.B. Cushion
Grips, specially
moulded
air cham-
bers, 1 1/2 in.
bars only,
grey rubber,
with fixing
tape. Pair ... 1/3



**HEAD PARTS,
B.S.A.**

Head Clips ... each 3/6
Frame Races 5d.
Head Lock Rings ... 6d.
Plated Crown
Races .. 6d.
Top Screw Races
for Colonial Head .. 10d.

Brampton each Cycle Tandem
Head Clips 1/6 3/0
Frame Races 2d. 4d.
Head Lock Rings ... 4d. 9d.
Plated Crown Races 3d. 7 1/2d.
Top Screw Races
for Colonial head 6d. —
Tandem Bottom
Head Race Cup — ... 10 1/2d.



HUBS

NOTE.—The following prices do not
include cogs and lock rings, except
where stated.

**Single-Bicycle Hubs
The F. H. Grubb Special
Hubs.**

Front, solid-spindle 5/0
Rear, solid-spindle, double-cog 9/0

Brampton—FRONT

Standard 2/6
"Superb" 2/5

REAR

Standard, single-cog... .. 3/3
"Superb", single cog 3/8
Double-cog, solid-spindle ... 4/1
Hollow-spindle, double-cog ... 5/9

B.S.A.—FRONT

Locked cones with shoulders ... 5/9
REAR
Wide-flange or standard ... 8/3
Double-cog, solid-spindle ... 10/3

**Chater-Lea
Disc-adjusting—FRONT**

Hollow-spindle, with skewer ... 7/0
Racing, solid-spindle ... 5/4

REAR

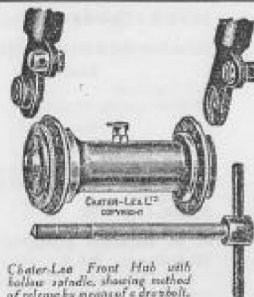
Wide-flange 7/6
Double-cog, solid-spindle ... 9/4
Single-cog, hollow-spindle with
skewer, adjusters, etc. ... 11/6
Double-cog, ditto 14/0

**Chater-Lea "Duralumin"
Disc-adjusting—FRONT**

Solid-spindle ... each 9/0
Hollow-spindle 10/8

REAR

Solid-spindle, double-cog each 14/6
Hollow-spindle, double-cog .. 19/2



Chater-Lea Front Hub with
hollow spindle, showing method
of release by means of a screwdriver.

Constrictor Hubs

Conloy Front ... each 11/0
Conloy Single-cog Rear, solid
Spindle ... each 16/0
Conloy Double-cog Rear, solid
spindle ... each 17/6
Boa Front 2/3
Boa Rear, single-cog, solid
spindle ... each 4/0
Boa Rear, double-cog, solid
spindle ... each 4/0

Eadie Coaster, inc. cog 16/6

Torpedo " " " 13/0

**Sturmev-Archer Hubs
(Cogs included)**

Tri-Coaster, top-tube control... 31/0
Ditto, handlebar control ... 33/0
3-speed, top-tube control ... 22/6
Ditto, handlebar control ... 24/6
Coaster 11/0

Cyklbrake Hubs—see Brakes
Cyclo 3-Speed—see Chain
Gears

Tandem Hubs

Brampton—FRONT
Solid-spindle 3/7
REAR
Single-cog, solid-spindle ... 4/0
Double-cog, ditto 4/5

By means of a Special Fitting of our
own design, Coaster and Cyklbrake
Hubs can be used with every success
in conjunction with the F. H. Grubb
Quick-Release.

HUBS—Tandem (continued).

Chater-Lea Disc-adjusting

FRONT	
Solid-spindle ...	7/6
Hollow-spindle, complete ...	9/9
REAR	
Single-cog, solid-spindle ...	10/6
Double-cog, ditto ...	11/6
Single-cog, hollow-spindle, complete ...	14/9
Double-cog, ditto ...	16/8

F. H. GRUBB Special Rear

Wide-flange, B.S.A. components, 1 1/2 in. chain line, double-cog ... 15/0

HUB SPARE PARTS

Brampton

Cog lock rings ... each	3d.
Front Cones ...	3d.
Rear Cones ...	4 1/2d.
Cone lock nuts, flat ...	2d.
Ditto, shouldered ...	2 1/2d.
Front spindles ...	5d.
Rear ditto ...	9d.

B.S.A.

Cog lock rings ...	1d.
Front cones ...	5d.
Rear ditto ...	6d.
Cone lock nuts, flat ...	2d.
Ditto, shouldered ...	2 1/2d.
Front spindles ...	8d.
Rear ditto ...	1/0

Chater-Lea—Cycle

Cog lock rings ... each	6d.
Cups, front ...	10d.
Lock rings for ditto ...	5d.
Cups, rear, fixed side	1/0
Adjusting side ...	1/3
Lock rings for ditto ...	6d.

SPINDLES

Front, solid ...	2/0
Ditto, hollow ...	2/4
Rear, solid, single-cog ...	2/8
Ditto, double-cog ...	3/0
Rear, hollow, single-cog ...	3/0
Ditto, double-cog ...	3/0

HOLLOW-SPINDLE SKEWERS

Front ... each	1/4
Rear, single or double-cog ...	1/8

FOUR-END COLLARS AND NUTS

Rear, single-cog ... pair	2/0
Ditto, double-cog ...	3/0

Chater-Lea—Tandem

Cog lock rings, race pattern, each	6d.
Ditto, heavy pattern ...	9d.
Cups, front, race pattern ...	1/0
Ditto, heavy pattern ...	1/3
Cups, rear ...	1/0
Cup lock rings ...	6d.

SPINDLES

Front, solid ...	2/8
Ditto, hollow ...	3/2
Rear, solid, single-cog ...	3/3
Ditto, double-cog ...	3/6
Rear, hollow, single-cog ...	3/6
Ditto, double-cog ...	3/9

HOLLOW-SPINDLE SKEWERS

Front ... each	1/8
Rear, single or double-cog ...	2/0

FOUR-END COLLARS AND NUTS

Front ... pair	2/0
Rear, single-cog ...	2/0
Ditto, double-cog ...	3/0

Constrictor Single-Cog

Drop-out attachments, complete, each ...	5/6
Ditto, carrier slides, nuts and washers ... pair	2/5
Skewer ... each	1/3
Hollow-spindle ...	1/0
Drop-out chain adjusters ... pair	6d.

Constrictor Double-Cog

Drop-out attachments, complete, each ...	7/0
Drop-out carrier slides, nuts and washers ... pair	3/6
Skewer ... each	1/3
Hollow-spindle ...	1/0
Drop-out chain adjusters ... pair	9d.

Spare Parts of all descriptions kept in stock. Every requirement for the modern bicycle. Special parts can be supplied at shortest notice. Write ... and let us know your needs. ...

INFLATORS

Bluemel's Celluloid

		Black	Olive Green
* The Noweight ' 12 x 1/2 in.	2/9	3/0	3/0
	15 x 1/2 in.	3/0	3/3
	18 x 1/2 in.	3/3	3/6
* The Sterling ' 15 x 1/2 in.	2/9	3/0	3/0
	18 x 1/2 in.	3/0	3/3
* The Motobike ' 15 x 1/2 in.	4/0	—	—
(folding foot)	18 x 1/2 in.	4/3	—

Bluemel's 'Sterling' Pump is standard on F. H. Grubb Bicycles and Tandems held in Brazen-on-Pegs.

Inflator Connections



- Constrictor Adaptor** for Schrader Valves, each ... 5d.
Bluemel's Silk Braided, No. 9 ... 6d.
 " No. 11, Sin. long ... 7d.
 " French Connections ... 6d.
John Bull 5 1/2 in. long ... 4d.
 " 8 1/2 in. ... 6d.
Constrictor Connection for Schrader Valves, each ... 5d.

INFLATOR WASHERS—

- Bluemel's** Ready oiled, 1/2 in. dia., & 1 1/4 in. dia., each 1d.
Constrictor 'Boa' Push-on Connection. A rubber and brass adaptor in two patterns, suitable for all valves. With supplies of new rubbers will last for years. Complete with rubber, each ... 6d.
 Rubbers, each ... 1 1/2d.

NO 2. PATTERN



NO 1. PATTERN



ACTUAL SIZE

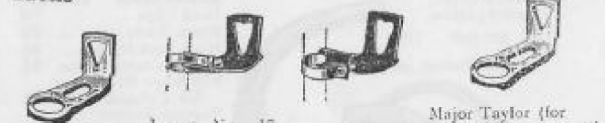
INSULATING TAPE

Chemico, very strong and adhesive ... in tins, 4d., 7d. and 1/- each
John Bull, 1/2 in. ... in tins, 4d., 7d., 1/0 and 2/-

LAMP BRACKETS

B.S.A. ... 1/0 **Chater-Lea**, Cycle 8d. **Brampton**, Cycle 6d.
 " Tandem 1/0 " Tandem 7d.

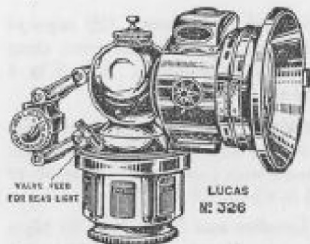
Lucas



Lucas No. 10 for extra heavy lamps.
 Lucas No. 17 for D, oval or round section rear stays.
 Lucas No. 16 (for front fork blade) to carry double-purpose lamp.
 Major Taylor (for extension) ... 9d.
 Ditto (for round extension) ... 9d.
 Front and Rear Spindle Brackets ... 4 1/2d.
 Special Bracket for round front forks ... 1/3
 Extra Long Head Brackets to clear h bar extension ... 1/3
 Black only ... 1/0

Reversible Lamp Bracket suitable for D or oval front forks for front lamp, or back stays for rear lamp ... 7d.
 Ditto fitted with rubber sleeve to protect enamel ... 9d.

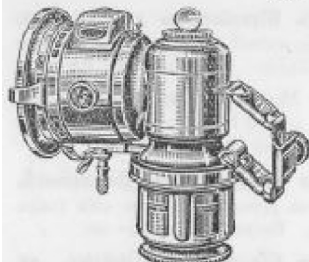
LAMPS—Lucas Acetylene



VALVE FILLER FOR REAR LIGHT
LUCAS No. 326

No. 326 'Calcium King' comprises glass-covered reflector, special easy-fixing container, patent burner cleaner, and patent valve nipple for tail lamp. No. 326T Set complete, with tail lamp. No. B116 and rubber tubing ... 21/0
Plated or Ebony.

No. 326, lamp only, plated or ebony 17/6



No. 157L 'Calcium Major.' Front body hinged to lift up and allow ready access to glass-covered reflector. Lucas patent quick-action carbide container fixing, special combination water-filler cap and funnel, and atmospheric burner. Rear light nipple allows lamp to be used with Tail lamp No. B116.

Plated or Ebony

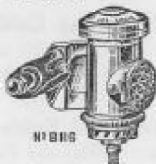
With Double-Convex Lens, price 11/6
No. 157, without lens ... price 10/6
The above lamps can be supplied with a removable carrying bail for use as hand-lamps, when required.

Bail 6d. extra

No. 133 'Calcium Cadet' is Lucas's cheapest gas lamp and good value for money. Same type of container fixing and water-filler cap as No. 143. Ebony or plated finish, now supplied with valve nipple for working rear lamp ... 5/0



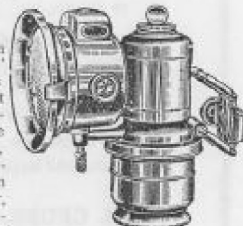
Nos. 143 and 133 can be supplied with removable carrying bail for use as hand-lamp, when required. Bail, 6d. extra.



No. B116 Acetylene Tail Lamp is designed for use in conjunction with Lamps Nos. 310, 326, 157, 143 or 133.

The red glass is hinged for opening, and the lamp is fitted with a clip enabling it to be fixed upright on stays of varying angles. The burner adapter is threaded for pump connection, which enables the burner to be cleaned with an ordinary tyre pump. Nickel plated only, 3/6. Rubber Tubing for same 9d. per yard.

No. 143 'Calcium Club' comprises patent quick-release container, large aluminium reflector, non-detachable



water-filler cap, atmospheric burner, and a patent burner cleaner carried in a clip inside the lamp. With valve nipple for tail lamp tubing.

Plated or Ebony, 7/6

LAMPS (continued)

Burners for Lucas Gas Lamps (Genuine Lucas)

'Roni' No. 53 for Calcium projector and self-contained lamps, and No. 321 projector sets ... 1/3
Atmospheric No. 11 for No. 310 projector sets, Calcium Toura, Calcium Club and Club Garda ... 2d.

Atmospheric No. 108 for Calcium Cadet and Cadet Garda ... 3d.
No. 306 for No. B116 Tail lamp ... 3d.
Bray 'Ceto', push-in, for Lucas lamps ... 3d.
'Byka', ditto ... 7d.

Lucas Electric

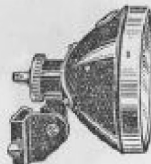
The new 'Lucas Cycle Dynamo Lighting Set,' No. 25, represents Lucas experience as the largest British manufacturers of electrical equipment for cars and motor cycles.

The Headlamp has a Parabolic Silvered Reflector, bulb holder which allows for correct focussing adjustment, and Lucas 'Diffus' glass. The Dynamo is of robust construction, waterproof and dustproof, and engages with the side of the tyre. The clip and spring is ingenious, and it is a simple matter to throw the dynamo out of engagement. It needs no special attention in use except occasional lubrication of bearings. The output is arranged so that there is no overloading of bulbs under any conditions, ensuring long life.

Complete Set includes Dynamo with carrier bracket, headlamp, tail lamp, necessary bulbs, cable, etc. Finish: Ebony; plated parts ... Price 25/0

Set without tail lamp, price 22/6
Spare bulb, B.S.A. No. 85 for 1/2 lamp 1/3
Spare bulb,

M.E.S., for tail lamp ... 6d.



LUCAS



Ever-ready Electric

Dry battery, 2 1/2 in. reflector, positive spring bracket which will not shake loose. Light and compact. Ideal for the business rider, or to take on tour when one does not expect to use a lamp, but takes one 'in case.' Useful, too, in the inn bedroom.

Lamps complete with Batteries and Bulbs.		Spare Batteries	
No.			
2036	Ebony and Nickel mounts ...	3/3	9d.
2234	" " " " ...	1/3	9d.
2035	" " " " ...	6/6	1/6

Spare bulbs for any of above, 6d. each

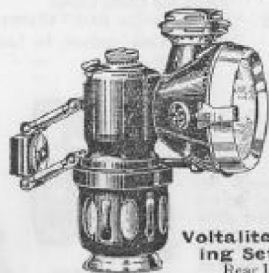
Lucas No. 09 Front Electric Cycle Head or Hand Lamp.

Ebony and Nickel finish, with handle, complete with Battery and Bulb ...	3/3
(Weight 18ozs. only.)	
Spare Battery ...	9d.
Spare Bulb ...	5d.



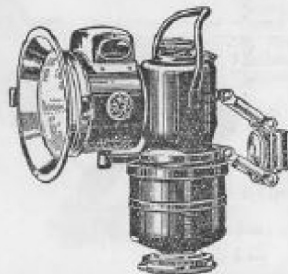
LAMPS (continued)

Powell & Hanmer Acetylene Lamps

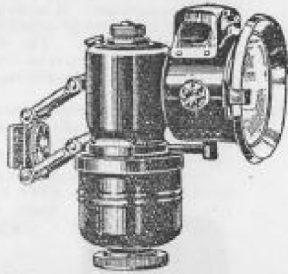


'New Sultan,' 3in. double-convex lens, Bray 'Finn's' burner, mirror reflector, double carbide container with patent locking device, improved back. Will give 4 hours' continuous light. Nickel plated or ebony and nickel plated mounts... 13/6

Voltalite Junior Lighting Set ... 12/6
Rear lamp, extra, 2/6

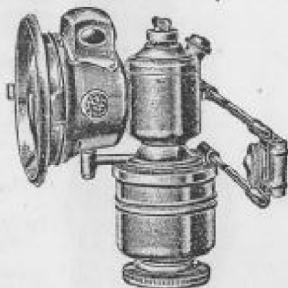


The New 'P. & H.' No. 75—Large water part, deep carbide chamber, silvered mirror reflector, 3in. double-convex lens ... 11/0



'New Revenge'—Deep carbide chamber, large water part, 3in. single-convex glass, new type valve and foot screw ... 7/6

'New Panther'—Has many new features, heavy-gauge brass throughout, new designed cone, aluminium reflector, prism side glasses, improved ventilator top, large feeder cap with screwed thread, new type valve with indicator, strong leak-proof back knuckles with rubber joints, deep carbide chamber with central locking screw ensuring gas-tight chamber. Nickel plated or ebony and nickel plated finish ... 5/0



Bartholomew's List of Atlases

Pocket Atlas of the World' and Gazetteer. 120 pages of finely-coloured Maps, 80 pages of World Gazetteer, along with several pages of Statistical Information. Size, 5 by 4 inches. Cloth Boards, 2/6 net.

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Pocket Guide to Melrose, Abbotsford, Etc. With Views, Plans, and large Scale Map. Price 9d. net. Postage 2d. extra.

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BARTHOLOMEW'S Survey Gazetteer and Atlas of the British Isles

*Compiled from the most recent census figures and the latest
statistical and topographical information.*

THE LATEST EDITION

of this great work has been entirely re-written and reset, and includes several thousand additional entries.

Whilst each branch of commerce and industry provides itself with works of reference suitable to its special requirements, a good, reliable and moderately-priced Gazetteer is a valuable and indispensable acquisition to every Library. This work, a veritable *multum in parvo* of facts and figures, contains about 100,000 names of Parishes, Cities, Towns, Villages, Hamlets, Seats, Rivers, Lakes, Mountains, etc., arranged in strictly alphabetical order, while the population of each ecclesiastical Parish, City, Town, etc., is given. All Railway Stations are included, together with the system to which they belong, and places having a Post or Telegraph Office are shown, while the particular industries of many places are mentioned.

There are also valuable Appendices and numerous interesting Statistical Tables relating to Shipping, Agricultural Returns, Religions, Education, Rainfall, Temperature, and other subjects.

A useful adjunct is a complete "Atlas of the British Isles" in 48 Sections on the Scale of 10 miles to an inch, printed in full colouring to show Counties.

Adopted by Government and all large Offices as a Standard work of Reference.

PRICE

Bound in Cloth 35s. net
Strongly bound in Half Morocco 42s. net

Each copy is packed in Cardboard Box.

*To enable you to judge of the importance and value of this work, a
Special Prospectus, with Specimen Page, sent free on application to
F. H. GRUBB, Robart Street, Brixton, London, S.W. 9.*

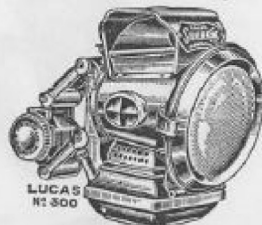
LAMPS—P. & H. Acetylene

—continued.

'Chieftain' Model de Luxe—Embodying all the latest improvements, 3in. double-convex lens and mirror reflector, Bray 'Finax' double-burner, double carbide chamber with positive locking device making a perfect gas-tight joint, and new design water part. Nickel plated or ebony and plated mounts 16/0

'Panther Reflex'—a similar lamp to the Panther, illustrated on page 32, but with reflector and red glass throwing light to the rear 6/0

Lucas Oil Lamps



No. 300 'Silver King' is acknowledged everywhere as the world's best oil lamp. Large oil vessel, double-convex lens, detachable glass covered reflector, hinged side door. Body opens right down. Plated or ebony . . . 16/6

PROJECTOR SETS

No. 105 A.S. has flat socket to projector enabling it to be fitted to ordinary flat bracket. Set complete, less rear light, 14/0

With No. 50C rear light . . . 16/0
No. 105, Projector only . . . 8/0
No. 121, Generator only . . . 6/0

No. 50C 'Starlight'—A rear lamp for use in conjunction with Chieftain, New Sultan, New Revenge, No. 75, New Panther and Panther de Luxe lamps, and Nos. 114 and 105 projector sets. Shows white spot light to front. Nickel plated or ebony and nickel plated mounts 2/0



No. 74 'Black Prince' is of similar design to No. 300, but with polished metal reflector. Readily accessible for cleaning. Ebony finished only . . . 8/6

Burners for P. & H. Gas Lamps

Bray 'Deto,' screw-in 5½d.
'Ceto,' " " " " " " 2½d.
'Byka,' " " " " " " " " " " 7d.
'Vika,' taper-screw, for rear lamps 2½d.

Acetylene Burner Cleaners

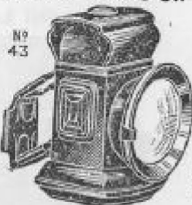
Terry's 'Ironclad' 3d.
Bray No. 3 5½d.



No. 50, 'Captain,' is fitted with double convex lens and fixed oil vessel. This pattern is a favourite for ladies' machines. Plated or ebony finish, 8/6

All prices in this list are subject to alteration without notice and manufacturers' minimum prices must be adhered to. Any excess remittance will always be returned with goods. No credit slips. With F. H. Grubb you are always assured of a square deal.

LAMPS—Lucas Oil—(continued)



No. 43 'Pathfinder' has a plano-convex lens and an opening side glass. Hinged oil vessel.

Ebony finish ... 4/0
Nickel plated ... 5/9

No. 33



No. 33 'Planet' is the cheapest oil lamp in the Lucas range. Plano-convex lens, hinged oil vessel.

Ebony finish ... 2/0
Nickel plated ... 3/0



No. 23T Tail Lamp is a cheap but reliable lamp of Lucas value.

Ebony finish only 2/0

No. 62



No. 62 'Kinglet' is fitted with double convex lens and a glass-covered reflector which is readily accessible for cleaning.

Ebony finish, 7/6
Nickel plated, 8/6

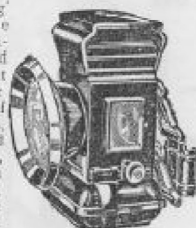
No. 17 Bracket should be used for No. 23T lamp (see page 29).

When ordering Lamps should always specify finish required.

Use Lucas 'Brittenwhite' Oil for best results.

Powell & Hanmer Oil Lamps

'Demon King'—Double front, detachable domed glass, patent wind washer, rattleproof, side glasses, rubbered knuckles, aluminium reflector, new-type burner, and large hinged oil well, with positive locking.



Powell & Hanmer's 'Demon King'

Ebony finish ... 2/0
Plated ... 2/9

'New Horoscope'—Silvered-mirror reflector, large oil well, reinforced back standard, improved catch, opens right down for cleaning ... 10/0

'Petro Horoscope' with Barton burner, to burn petroleum ... 10/9

'Corsair'—Hinged front with locking device, double convex lens. Nickel plated ... 5/0
Ebony ... 4/6

No. 66 'Corsair' with Barton burner. Nickel plated ... 6/3

'New Citadel'—Double-convex lens, prism glass in side opener, large oil well with patent locking device, and aluminium reflector. Ebony finish 4/0
Nickel plated ... 5/0

'Winner'—A new model very similar to the Demon King, but without double front. Nickel plated ... 2/3
Ebony finish ... 1/6
Ebony, fitted red glass ... 1/0

Complete Satisfaction or Money Back

Powell & Hanmer's Oil Lamps (continued)

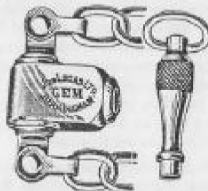
'New Demon'—A very similar lamp.
Nickel plated ... 2/6
Ebony finish ... 1/9
Plated Barton burner ... 3/9
Ebony, fitted red glass ... 1/0

'Demon Reflex,' plated ... 3/3
Ebony ... 2/0

'Colonel'—Cylindrical design, similar to the 'Corsair,' but with single convex lens, and spring bracket in place of adjustable screw. Plated ... 3/9
Ebony finish ... 3/3
Fitted red glass ... 3/3
Plated, Barton burner ... 4/10

LOCKS

Lucas Gem, with plated chain and key ... 2/6



MAPS, Ordnance Survey

The only maps covering the whole of Great Britain on scale of in. to mile—the most useful scale when distance is secondary to surroundings.

Popular edition, 1 in. scale, in cover, Paper, 1/6; Cloth, 2/6; Dissected, 3/6

Popular edition, 1/2 in. scale, in cover.

Paper ... 2/0
Cloth ... 3/0
Dissected ... 4/0

Dunlop Road Books and

'Kuklos Annual'—see page 8.

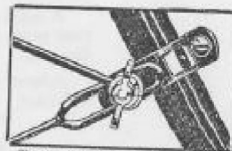
When considering the purchase of a new mount, remember that Grubb Bicycles and Tandems are built and finished entirely in our own complete works, under the direct personal supervision of F. H. Grubb.

Apart from its reputation as one of the fastest and cutest little bikes on the road, the complete specification of the 'Grubb' reveals it to be a solid value for money proposition at an honest price. Write for details.

MUDGUARDS

Bluemel's Celluloid

Light and reliable, cannot rust, no enamel to scratch, outlast aluminium, do not rattle. Detached in a few seconds. For 26 and 25in. wheels. The New 'Universal' stay fittings enable guards to remain at the correct radius and distance from the tyre. Adjustable to the various sizes and sections of forks. No rattle. Straps remaining permanently fixed to machine. Sliding adjustment for length. Also supplied with stays for fixing on brazed-on eyes.



The New 'Universal' Stay Fittings

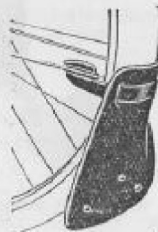
Complete Pairs

'New Noweight' with 'Universal' fittings and screw-in stays	...	8/0
Ditto with one-piece extension	...	8/8
'New Lightweight' Narrow pattern, 1 1/2 in. wide with 'Universal' fittings and screw-in stays (only supplied with one-piece extension)	...	7/9
'Peerless' with spindle fitting, 5/9; ditto with one-piece extension	...	6/5
'Protector' with spindle fitting, 5/6; ditto with one-piece extension	...	6/2
'Popular' with spindle fitting (only supplied without one-piece extension)	...	4/8
'Nought,' 'Peerless' and 'Protector' Guards can be supplied in Olive Green, White or Transparent at an extra charge of 9d. per pair.		

MUDGUARDS—Bluemel's Celluloid (continued).

	Extensions	each
'Newweight' No. 2	1/3
No. 3 with metal sides	1/6
No. 4 'Protector' pattern	1/6
No. 6 'Spearpoint' with fork fittings	1/0
No. 7 'Spearpoint' with fork-crown fittings	1 2

Extensions to suit calliper brakes also supplied. **Mudguard Straps**, ea. 9d.



Mudflaps—Ashby

'Easyfit' Spring Mudflap, fitted on new principle. Clips on to stays of mudguard. Held perfectly rigid by strip of spring steel, which also adjusts flap to shape of guard. Instantly attached or removed for cleaning. Cannot curl. Made of real leather, will not crack. 3 1/2 x 8in, 1/7

Bluemel's 'Perfection', flexible celluloid, 10 x 6 1/2 in. 11d. Ditto, 12 x 7 1/2 in. 1/4. Olive Green, 3d. extra

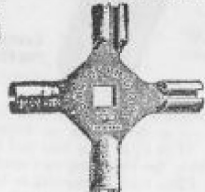
Bluemel's Celluloid Sideguards

Rear Guard, 2/4 Front Guard, 2/8 Per set 5/0
Olive Green or Transparent, 9d. extra.

NIPPLE KEYS



'King Dick' single ... 5/4.
4-way ditto ... 9d.



'Spearpoint' Aluminium Extension, 10in. long, with round plug fitting steering column 1/1

Bluemel's Guards are Standard on Grubb Bicycles and Tandems fitted to brazed-on Eyes

OILS Burning

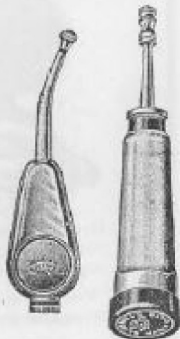
White's Electrine ...	...	6d. and 1/0
Price's ...	...	6d. and 1/3
Lucas Britenwhite ...	...	7d.
Sealedlight ...	...	4d. and 7d.

Lubricating

Tecalemit ...	...	9d.
Three in one ...	...	9d. and 1/0
B.S.A. ...	...	6d.
Vasol ...	...	4d. and 7 1/2 d.
Price's A and B ...	...	6d. and 1/3
Electrine ...	...	6d. and 1/0

OILERS

Bluemel's Long Celluloid Transparent, illustrated	1/3
Dover Flat Transparent	9d.
Lucas 'Vesta'—a 5in. metal oiler with filling screw slotted to take coin, illustrated	1/0
Seat Pin Oilers	11d.
Tecalemit High Pressure Oil Guns—	
For use where oil covers are used	2/6
For use with Tecalemit nipples	2/6
Tecalemit nipples	each 2d.



PEDALS

Brampton solid centre, rat-trap 3 1/2, 3 1/2 pair and 4in. ... 5/3
Single rubbers, 3 1/2 and 4in. ... 5/3
'Universal' rat-trap, 3 1/2 and 4in. ... 2/4
Divided rubbers, 3 1/2 to 4in. ... 2/10



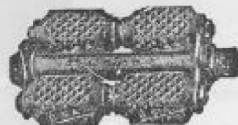
The Brampton 'Dapta' Pedal which may be readily converted into rat-trap or rubber by unscrewing the four bolts shown. In 3 1/2in. size only.
'Universal' quality, all black ... pair 3/6
Ditto, plated ... " 3/1
'Standard' quality, plated ... " 3/10



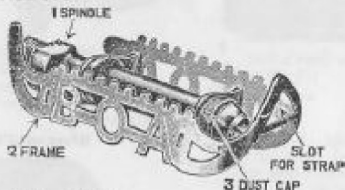
B.S.A.

B.S.A., 3 1/2, 3 1/2 and 4in. pair 14/0
4 1/2in. pair 15/6

B.S.A., single or divided pair rubbers, 3 1/2 to 4in. sizes ... 11/0
4 1/2 and 4 1/2in. 15/6



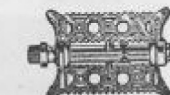
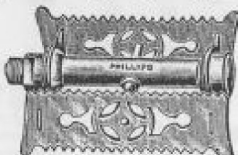
Constrictor



Constrictor 'Boa.'
Note slot to take strap and the absence of side plates (giving ground clearance for cornering)
per pair ... 4/0

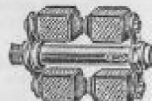
Phillips

Phillips 'Anglo' Race ... 2/8
Phillips 'Celtonia' Race ... 2/6

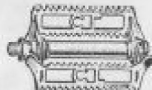


Brampton Race Pedal, in two qualities, 2/10 and 4/4 per pair
Solid Centre Race, 5/10

Chater-Lea
all 12/0 per pair



Chater-Lea Divided Pattern Rubber Pedals with soft quality rubbers.



Chater-Lea Race Rat-Trap Pedal will take any width shoe.



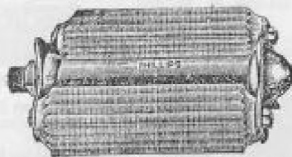
Chater-Lea Rubber Pedals, with soft quality rubbers. Standard width rubbers 3 1/2in. and extra wide rubbers 4in.



Chater-Lea Roadster Rat-Trap Pedal. Standard width 3 1/2in. and extra wide 4in.

Pedal Spares of all Makes.
Rubbers, Spindles and Side
:: :: Plates Fitted :: ::

PEDALS (continued)



- Phillips 'Anglo' Carrier Pedal pair with leather blocks, 1 1/2 in. wide 4/11
 Phillips 'Celtonia' rat-trap ... 1/8
 Divided rubbers, 3 1/2 and 3 3/4 in. ... 2/11
 'Anglo,' divided rubbers 3 1/2 and 4 in. ... 2/11
 Phillips 'Anglo' single rubber, 3 1/2 and 4 in. ... 2/8
 4 1/2 and 4 3/4 in. ... 3/2

Constrictor 'Boa' Pedal Sundries

- Spindle and Cone ... each 1/0
 Pedal Frame 1/6
 Dust Cap 4d.

Pedal Rubbers



- John Bull, Lady's or Geor's, four to set ... 1/5, 1/0 and 2/0
 Chemico, Lady's 1/0
 Gen'Ls 1/3

Brampton Pedal Rubbers for 'Dupta' Pedals (Sets of four), complete with screws and nuts 1/0 per set

Pedal Sundries

	Chater-Lea	B.S.A.
Spindle only	1/6	1/6
Cone	6d.	3d.
Nut and Washer	13d.	13d.
End Cap	5d.	3d.
Side Plates	8d.	7d.
End Plates	6d.	9d.
Centre Stays and Screws		3d.

PETROLEUM JELLY

- Chemico ... 1 1/4, 3d. and 6d. tins

Picnic Knife and Fork.

Best quality, nickel plated. To detach the fork from the knife, open it half-way and slide that side of the handle downwards, when they will fall apart.



each 3/6

REFLECTORS.

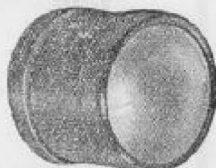


Hand Reflector. Minimises the danger of a road signal not being seen or being misunderstood. Useful also for the country pedestrian. 1 1/2 in diameter 7d.



All the following Reflectors are guaranteed approved type, passed by National Physical Laboratory, and may be purchased with perfect confidence.—

Bluemel's



Bluemel's No. 8 'Ray-light'

No. 8 'Raylight,' with ruby lens and concave silvered glass mirror. Standard clip for D section or oval stays. Special clip for round stays. Please state requirements when ordering. Effective up to 150/200 yards. Each 1/6

REFLECTORS (continued)

No. 9 'Raylight,' similar to No. 8 but with clip for attachment to centre of mudguard each 1/3

No. 1 'Prismatic' with 'Fairylite' glass. The internally situated prisms throw back the rays of an overtaking lamp with a bright red glow. With plated clip for mudguard each 1/

No. 5 'Prismatic,' similar to No. 4 but with enamelled clip to screw on centre of mudguard each 1/3



Bluemel's No. 10 Prismatic

No. 7 'Prismatic,' with standard clip for D section or oval stays. Special clip for round stays. Please state requirements when ordering. A very neat fitting each 1/0

No. 10 'Prismatic,' shaped to fit mudguards, firmly secured by one screw each 1/6

All the above have black celluloid cases and are dust and water tight.



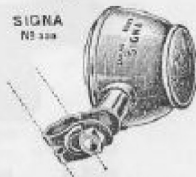
Bluemel's No. 7 Prismatic

Lucas 'Signa' Reflectors

The Lucas 'Signa' is a Reflector of guaranteed efficiency. It will reflect at any angle up to 50 degrees on either side of its axis. With 1 1/4 in. ruby lens and black finish it is made in the following two models—

No. 329S, with strong clip to fit rear stay each 1/0

No. 329M, with rigid bracket clip and screws to fix upright on rear mudguard each 1/0



SIGNA No. 329

Lucas 'Signalite' Reflectors

With 1 1/4 ruby lens and black and satinised aluminium body, made in the following two models—

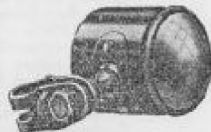
No. 328S, with clip to fix on rear stay each 1/0

No. 328M, with strong bracket clip and screws to fix upright on rear mudguard 1/0



Perry's 'Mascot' No. 1 (illustrated), cellulose black finish, back-stay or mudguard fitting (please state requirements when ordering) each 1/0

'Perylite' with larger mirror, for either stay or mudguard fitting each 1/6



RIMS—Constrictor



'Constrictor' Flat Wood Rim for tubular tyres—the lightest and most popular.

In the following sizes—
26, 27 and 28in. x 13mm. for special sprint work.

Ditto x 13mm. for path and special road work (at rider's own risk).

Ditto x 14mm. for road and 'dems.

First choice pair 17/8

'Boa,' black and red lined centre " 10/3

Re-inforced Round Rim for tubular tyres—note thickened portion at valve hole.

Prime maple wood, three laminations, 26, 27 and 28in. x 1in. also made 1 1/2in. for Tandem work pair 17/0

'Boa,' black and red lined centre " 10/0

The Light 'Conloy' rim for w.o. tyres.

Remarkably light (approx. 1lb. 4oz.) considering its enormous strength. 26 x 1 1/2in., 26 x 1 1/4in. only, aluminium finish pair 23/0

The Medium 'Conloy' rim (approx. 25 ozs) recommended where weight is not so important, for light tandem work, 26 x 1 1/2in. and 26 x 1 1/4in. Aluminium finish only pair 22/0

Narrow-Section West-wood. 26 x 1 1/4 only. Black enamelled. Pair 5/6

Plated 6/0

Plated, with black centre 6/4

'Constrictor' Boston Wood Rims for tubular tyres. Built up in three laminations. In two widths—1in. and 1 1/2in., each in 26, 27 and 28in. pair 10/9

'Boa,' blk & red lined centre .. 9/9

Kundtz Laminated Wood Rims for w.o. tyres, 26 x 1 1/2, 26 x 1 1/4, 28 x 1 1/2, 28 x 1 1/4, 1 1/2, pair 19 0

'Boa,' blk & red lined centre, pair 10 0

Dunlop Narrow-Section Plated Steel

Wired-on, 26 x 1 1/4 and 26 x 1 1/2 ... 0/7

Beaded, ditto 7/0

Black centres extra 8d.

Black enamelled 6/1

Other standard sections same price.

Washers for all Constrictor Rims, 4d. per gross. State rim required for.

Electrickly Welded.

Made by the Dunlop Co.

Plated 6/7

Wood finish 7/11

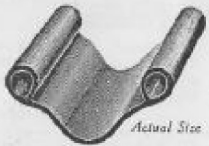
Stoved black 6/1

Plated, with black centres ... 7/3

Genuine Roman Aluminium

In sizes 26 x 1 1/4, 26 x 1 1/2, 26 x 1 1/2 and 28 x 1 1/4, wired-on ... pair 27/0

Beaded—26 x 1 1/4, 26 x 1 1/2 and 28 x 1 1/4 pair 27/0



SADDLES—Brooks

The following models represent the Brooks range. There are now three grades, the 'Brooks,' for those who insist upon the best, guaranteed for ever; the 'Challenge,' with simplified construction and less costly leather, guaranteed for two years; and the 'Legion,' a range for those who want the cheapest.

* Models shown thus are made in lady's type at the same price as the gent's model.

RACING, SPEED AND LIGHT ROAD MODELS

Three sizes—



B17—Ridden by the world's expert speedmen on road and track. Gent's model only. Standard, weight 1lb. 12oz., 11 x 6 1/2in. Narrow, 1lb. 11oz., 11 x 6in. Sprinter, 1lb. 8oz., 11 x 4 1/2in. Enamelled ... each 14/9



B75 L/Champette—Specially designed for ladies, not adapted from any other model. Long, slender narrow seat, 2lbs. 8ozs. 14/9



B19—A long saddle for long races and record rides. Also popular with hardened long-distance tourists. Should be compared with the B75c, 12 1/2 x 7in., 2lb. Gent's model with enamel finish only 17/3



B75CH—A gent's 3-coil speed saddle for long distance speed work. Easy energetic pedalling with the comfort of the coil spring. Same top as the B17 Standard, 2lb. 8ozs. Enamel only, 14/9



*C14—A 'Challenge' grade racing model. 4-wire looped spring bracket, 1lb. 10ozs. 12/0
B18 Champion—B17 top with B18 springing. Ideal for the hard rider, 11 x 6 1/2in. Gives just that necessary resiliency for fast road work, 1lb. 11oz. 13/0



B66

'Champion'—A semi-resilient model. Pivoted peak prevents side roll. B17, long narrow top, 2lb. 6ozs. Enamel only 14/9



C15N—'Challenge' track racing model. Narrow well-chambered seat on 4-wire looped bracket, 1lb. 10ozs. 12/0

LIGHT ROAD MODELS



B10

SADDLES—Brooks (continued).

*B10—Broad back, 4-wire double-looped bracket. Sturdy, for athletic, hard riders, 11b. 14ozs., 10½ x 8¼in. 11/9
Lady's model, 9½ x 8¼in. ... 11/9



*C16—
‘Challenge’
grade, 11b. 12ozs. ... 11/9

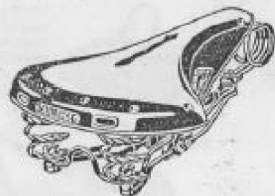


*Legion B—
4-wire single-looped
bracket. For riders who have learnt
the art of pedalling. 11b. 10ozs. 8/3

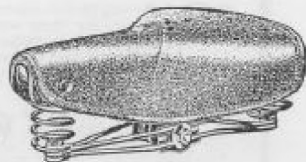
**TOURIST AND MULTI-SPRING
MODELS**



B90—The wonderful de luxe tourist
saddle:—
Size 1—10½ x 8¼in., 3lb. 4ozs., enamel
18/3; plated 21/3
Size 2—11½ x 9¼in., 3lb. 8ozs., enamel
20/9; plated 23/3
Size 3—12½ x 9¾in., 4lb. 2ozs., enamel
23/3; plated 26/9

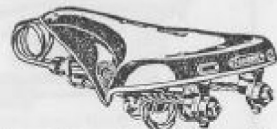


C5—‘Challenge’ grade, affording
luxury at very moderate cost, 3lb.
5ozs. ... 18/3



Suplex Patent Diamond Mattress, S20—
a luxurious mattress type cycle seat with
springs that cannot bunch under the
rider, which means flexibility with main-
tenance in shape.

Size 1, 3lbs. 2ozs. ... Waterproof 18 0
Leather 22 6
” 2, 3lbs. 12ozs. ... Waterproof 20 0
Leather 26 0



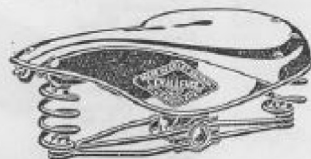
B53—semi-hammock, low-riding saddle.
Note ingenious rubber buffers and loop
front springs.

Size 1, 10½ x 8¼in., 2lbs. 15ozs.—
Enamel only 21/9



*B75—an inexpensive comfort model
to carry riders of from 7 to 10 stone.
Light 3-coil type with 4-wire bracket,
2lbs. 10ozs., 10½ x 8¼in. Lady's model,
9½ x 8¼in. ... Enamel 14/0
Plated 16/0

SADDLES—Brooks (continued)



*C7—Challenge grade, 2lbs. 8ozs. ... 11/3
C7—Lady's, 2lbs. 4ozs. ... 11/3



*Legion A—2 lbs. 2ozs. ... 8/9
Ditto—lady's, 2lbs. ... 8/9



The B85
Lady's
Model,

9½ x 8¼in.

*B85—Similar saddle to the B75—
but with 6-wire bracket and stranded
wire coils for heavier riders. A super
production, 2lbs. 14ozs., 10½ x 8¼in.
Enamel ... 16/9 Plated ... 19/0

C25—For heavy riders and Colonial
conditions. Tension coil springs on
hinged movement. Pivoted peak, large
seat, 3lbs. 14ozs. ... 19/0

B120—Still sturdier construction,
6-wire bracket, 4lbs. 8ozs.
Enamel ... 22/0

B135—Ditto, with loop front spring as
B90, 4lbs. 10ozs. Plated ... 28/0

FULL HAMMOCK TYPE

C12—Seat ideally placed midway
between two large steadying coils.
Release action for adjustment. 3lbs.
4ozs. Saddle only (tool bag extra,
4/0) ... 15/9

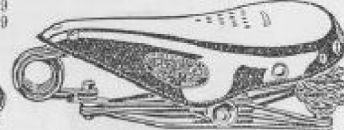
B80—An improved model of the
world-famous ‘Release Hammock.’
With controlling springs to enable
saddle to be ridden horizontal,
3lb. 12ozs. (tool bag extra, 4/0)
Plated ... 22/0

*Models shown thus are made in
lady's type at the same price as
the gent's model.

Brooks Plyflex Saddles.



P200—A narrow racing saddle,
slender, well cambered, waterproof
top on 2-wire framework. Size,
11½ x 8¼in.; weight, 11b. 10ozs.
Enamel ... 10.0



P207—A large shapely seat, 6-wire
bracket, stranded rear coils, 4-wire
loop in front. Waterproof top.
Weight 3lb. 6ozs. Enamel ... 13.9

Brooks Flexall Saddles.



THICK LEATHER SHAPE
SPONGE RUBBER CUSHION
MOLDED TOP COVERING

B17 Flexall. A sponge top given to
the Champion shape to give a resilient
surface for long distance riding.
Weight, 2lbs. 3ozs.
Enamel only, ... 20/0

All Lists have their limits. If you
cannot set what you want, write and
let us quote you.

SADDLES (continued).

Brooks 'Proofide' Dressing for conditioning, preserving and water-proofing saddles and all leather goods. Pleasantly scented.

Per tin ... 6d. and 3d.

Brooks Repair Parts

- Tension Pieces ... each 3d.
- Clips, complete ... " 2/4
- Inside Clip Washers ... " 9d.
- Outside Clip Washers ... " 7d.

Dunlop Waterproof Saddles



SPEED MODELS—all 11½ x 7in.

- F9—2-wire (illustrated), each 9/6
- F19—4-wire ... " 9/6
- F29—3-coil springs ... " 10/6

CARRIER MODELS

- F16—10½ x 8½in., 3-coil springs each 8/6
- F18—11½ x 9in., 3-coil stranded springs " 11/6

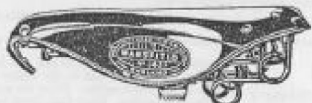
Mansfield Saddle

SPEED MODELS



The 'Ormond' Speed Saddle—Rust-proof Duralumin frame, the leather being stretched taut over it. There are no springs, but it has the usual adjustment at the nose. Its strength is unique and it weighs only 13ozs. Sprint size, 11½ x 4½in. ... 10/6
11½ x 6in. ... 12/6

M43—Similar in every way to the M44 except that it has eight horizontal springs. Lady's or gent's model, 9/11

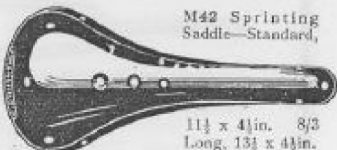


The M43L Lady's Model.

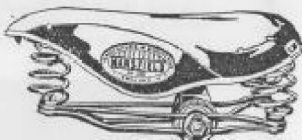
M44—Firm yet resilient, with four horizontal springs, light in construction, 11½ x 6½in. ... 8/10
M44s—11½ x 5½in. ... 8/10



M38—Racing Saddle, 11½ x 6½in. ... 7/9
M38s—11½ x 5½in. ... " 7/9
M39—13 x 6½in. ... " 11/10
M40—Four horizontal springs, 11½ x 6½in. ... 8/3

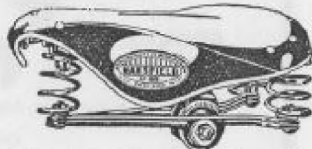


M42 Sprinting Saddle—Standard, 11½ x 4½in. 8/3
Long, 13½ x 4½in. 11/0



M41—3-coil frame, similar shape seat to the M38, 11½ x 6½in. ... 9/6

LADIES' MODELS



M25c, two sizes, 10 x 8in. and 10½ x 8½in.—
Large size, twisted coils ... 11/0
Ditto, plain coils, as illustrated 10/9
Small size, twisted coils ... 10/0
Ditto, plain coils ... 9/4

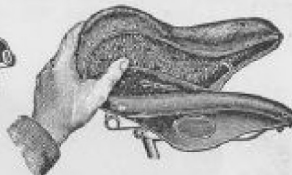
SADDLES—Mansfield

(continued)



M34—The saddle for the keen lady rider ... " 8/6

RESILION SADDLE TOP



A shock-absorbing cover made to fit all standard saddles. Thoroughly water-proof best morocco leather enclosing the special 'Resilion' anti-vibration material. Fits the saddle like a tyre, by means of a screw-adjusting wire.

DE LUXE MODELS

All the same price, 14/0 each—
Model A3—for B75, B10/1, B18, B85, B90, Lyetti's 83, etc.
Model A4—for all similar numbers, ladies' saddles.
Model A5—for B10/2, B130, B135 and other makers' similar models.
Model A6—for B17, B17N, Mansfield 38, Ormond, etc.
Model A7—for B12, Gough 92 and similar saddles.
Model A8—for B90/3 and all the largest cycle saddles.

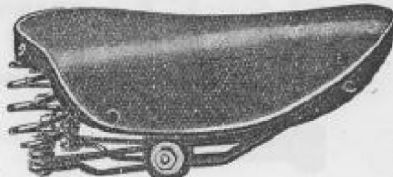
NEW STANDARD PATTERNS

Models A3, A4, A6 ... each 9/6
Models A5, A7, A8 ... " 10/6

Terry Spring Saddles

Model

- 1086 Gent's Ordinary, 10½ x 8½in., 2lbs. 13ozs. each 18/6
- 1087 Lady's Ordinary, 8½ x 9½in., 2lbs. 7ozs. each 18/6
- 1088 C.T.C. Model, 11 x 7in., 2 lbs. 11ozs. ... each 18/6
- 1089/L " " Lady's, 9½ x 7½in., 2lbs. 6ozs. ... " 18/6
- M1042 Gent's Old Pattern Solid Frame, 10½ x 8½in., 4lbs. 2ozs. ... " 20/0
- M1042 Lady's " " " 9½ x 8½in., 3lbs. 7ozs. ... " 20/0

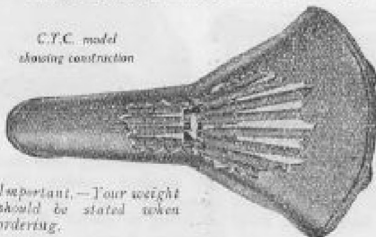


SADDLES—Terry Spring (continued)

Also in Large Seat Area Model, with flat steel under-carriage, for heavy riders (Dutch Model L1042)—

Gent's, 11½ x 9½ in., 5lbs. 15ozs., 21/0; Lady's, 10½ in. x 9½ in., 3lb. 7ozs., 21/0

C.T.C. model showing construction



Important.—Your weight should be stated when ordering.

In several important details the Terry Spring Seat Saddle has been considerably improved. Increased comfort, more pleasing shapeliness and a reduction in weight. The back framing is made from a light steel pressing which prevents all sharp corners and greatly improves seat spring anchorage. Durable waterproof covering.



SEAT PILLARS, 7 and 9in. long in the following

7in., 7½in., 8in., 8½in., 9in., 9½in., 10in.

Special lengths and sizes to order.

Plated L. Pillars ... each 1/9

Plated Straight Pillars ... 1/6

Curved Seat Pillars made to order.

All F. H. Grubb's Bicycles take a 7½in. pillar, except the Lady's Sports Model, which takes 9½in.

F. H. Grubb Special T-pin for Tandem use (see page 24).
Seat Bolts, 6d. each.



Conloy Seat Pillars, straight only 9 or 12in., in the following diameters—
1½in. and ½in. only. Weight, 7ozs. ... each 3/6



THE F. H. GRUBB SCHEDULE CARD HOLDER

—Made in the Grubb Works. Size, 3 x 4in., in dull black finish. Light in weight, very rigid. With celluloid cover over the card. Price, including 12 cards ... 2/0

SPANNERS, Screw Drivers, etc.

B.S.A. Spanners

Box ... 1/6

Cone ... 1/3

B.S.A. pattern,

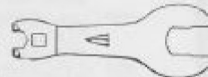
Box ... 10d.

Cone ... 7d.

'King Dick' Adjustable Wrenches

3in., 2/3 4in., 3/0 6in., 4/3 9in., 11/8

Pedal Spanner, double-ended, 13in. 1/6



Chater-Lea



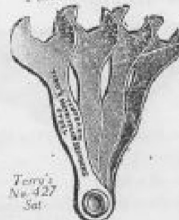
Box Spanner ... 2/0



Peg Spanner ... 6d.

SPANNERS—Terry's (continued)

No. 1010 Combination Spanner, fits all B.S.A. nuts, including cones, with screwdriver tip.
Blued ... each 1/6
Plated ... 2/6



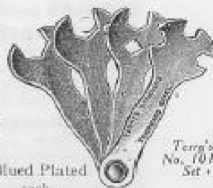
Terry's No. 427 Set

No. 427 Four Folding Spanner Sets. Fold into small compass for kit bag or pocket.

No. 1—3/8, 3/4, 7/8, 1in. each
across flats ... 9d. 1/3

No. 2—1/2, 5/8, 3/4, 7/8 in.
ditto ... 1/6 2/6

No. 3—1/2, 5/8, 3/4, 7/8 in.
Whitworth ... 2/6 5/0



Terry's No. 1010 Set

Blued Plated

Perfect Pattern
Screwdrivers,
4½in. ... 7d.
Ditto, 6in. ... 8d.



No. 72 Screwdriver, cycle size, 5in.,
bronzed, 4d.; plated, 5d. each
Ditto, motor-cycle size, 6½in.,
bronzed, 5½d.; plated, 7d. each

Lucas 'Girder' Wrench, three sizes, each size supplied with or without patent pipe-grip attachment for gripping round tubes, etc. This attachment can be turned back when not wanted. Gun-black finish.



SPOKES, Nipples and Washers

Best quality, high-tension, double-butt, 15/17 gauge, for steel, wired-on wood and sprint wheels ... dozen, 1/0; per half-gross 5/0

Other gauges same price.

When ordering state size and type of rim, and whether black or plated.

Nothing like it for keeping fit and fast between strenuous road slogs, and in the winter season it keeps the boys together. Bring the matter up at the next meeting. Every Club should have one

Has your Club a 'Grubb' Home Trainer?

TOESTRAPS and Clips



Constrictor 'Boa' Toe-clips and Straps,
 set complete ... 2/3
 Ditto without straps ... 1/2
 Conloy ditto, similar design, set complete... 3/6
 Ditto without straps ... 2/6



Lapize Clips for use with straps, pair 1/3

Lapize Clips for use without strap pair 1/3
 Ashby's Aluminium 'Lito' Toeclips No. 10 Rat-trap, made in one piece, free from springiness, strong, rustless, weight only 3/10z. ... pair 1/6



Lapize straps ... pair 1/3

Unit Pigskin Straps



No. 3, single strap with end fastenings, suitable for wide clearance pedals ... 1/6



No. 4, with steel box-clip, Pair ... 2/0



The No. 1, recommended Pair ... 2/9



No. 5 ... pair 2/0
 Messrs. Unit Patents' latest model.



No. 2, with centre buckle fastening; a wide strap that stands up well Pair ... 2/0



Ashby's No. 12, clip and strap type... 1/8
 'Trippa' adjustable clips ... 1/10
 Ditto, and straps ... 2/7
 Hawke's Toestraps, twin straps, set through top leather square ensuring freedom from collapse ... 3/0

Brook's Toe Straps

Adjustable for any rat-trap pedals,

B1171 Twin straps ... pair 2/3
 B1173 Single strap ... " 2/0
 B1140 Special pattern .. 1/3

THORN CATCHERS



That sharp bit of flint seldom punctures instantly. Let a thorn catcher remove it before it becomes embedded—when the trouble starts.

The 'Immobile' (illustrated), no trouble when fitted, very effective, per pair ... 1/0

'Merco' Patent Thorn Catcher per pair, 1/6 each ... 9d.

TYRES, Avon

SIZES AVAILABLE.

'Avon' Arc—All sizes, wired and beaded.
 'Cromlech'—All sizes, wired and beaded.
 'Premier'—All sizes, wired and beaded, except 26 x 1 1/2 Red 'Speedster'—26 x 1 1/2 only, wired only.

Red 'Speedster'

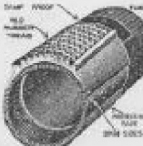
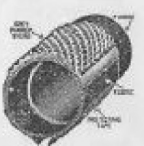
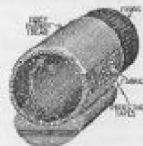
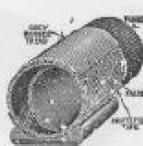


The new Avon 'Premier', a real luxury tyre at a moderate price.

	Wired Cover	Beaded Cover	Tube
Avon 'Arc' ...	5/6	6/6	2/3
'Cromlech' ...	7/6	8/6	2/3
'Premier' ...	10/0	11/0	2/9
Red 'Speedster' ...	7/6	—	3/0

Constrictor Tubulars.

Fitted Schrader Valves.

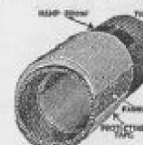
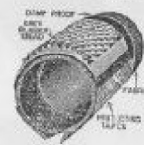


'Silk Championship'—suitable for cement only, the fastest of fast tyres, constructed on the loose-thread principle, each ... 24/6

'No. 1 Path'—made of flax thread, with slightly thicker inner tube than the 'Silk Championship', 1 1/2 in. band, each ... 18/0

'No. 2 Grass'—obtainable with non-slip or plain band—Silk, each ... 26/6
 Thread, each 20/0
 Skin sides, ex. 1/9

'Python Road'—made in the same way as the more expensive models, red non-slip band, skin sides, thread only, each ... 17/6



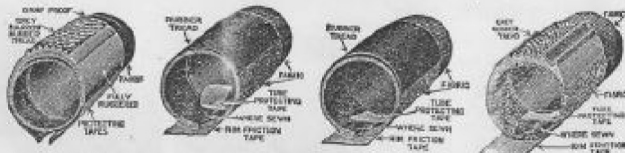
'No. 3 Road Racing'—fitted file pattern band over raw rubber strip—Silk, each ... 31/0
 Thread, each 24/6
 Skin sides, ex. 1/9

'The Fifty'—a road tyre fitted with smooth band only, very fast—Silk, each ... 27/6
 Thread, each 21/0
 Skin sides, ex. 1/9

'Century Road'—the tyre for 'hand-reds', well built up in the centre—Silk, each ... 33/6
 Thread, each 27/0
 Skin sides, ex. 1/9

'No. 4 End to End'—with three distinct layers of rubber tapering to walls—Silk, each ... 36/6
 Thread, each 30/9
 Skin sides, ex. 1/9

TYRES (continued)—Constrictor Zone (Sewn Patt.) Tubulars



'Super Light Roadster'—recommended for bad roads and winter use, fully-rubbered walls, narrow file band—Silk, each ... 34/0
Thread, each 23/0

'Zone Light Path Racing'—obtainable with either red or black band—Silk, 26, 27 and 28 x 1in., each 17/0
Cotton, 26, 27 and 28 x 1½in., ea. 13/0

'Zone Heavy Path Racing'—black rubber bands, 2ozs. heavier than the 'Zone Light'—Silk, 26, 27 and 28 x 1½in., ea. 17/0
Cotton, 26, 27 and 28 x 1½in., ea. 14/3

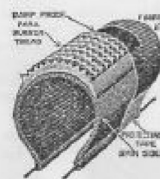
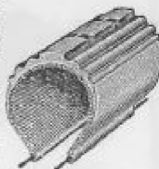
'Zone Road Tubular'—slightly thicker inner tube; file pattern, double-rib, red tread, 26, 27 and 28 x 1½in.—Silk, each ... 18/9
Cotton, each 15/6

Constrictor Wired-on



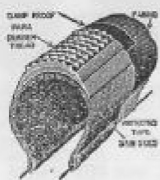
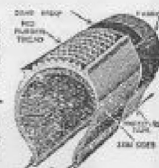
'De Luxe Open Sided'—
Cover, skin sides ... 18/0
Cover, ditto, tandem ... 22/0
Cover with 1st quality tube 21/9
Tandem, ditto ... 24/9

'Python Speed Cord'—
Cover ... 7/6
With 2nd quality tube ... 9/9
Four sizes only—
26 x 1¼, 26 x 1½, 28 x 1¼ and
28 x 1½.



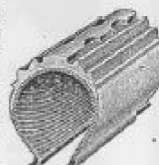
'No. 3 Road Racing'—
Cover, skin sides ... 12/6
With 1st quality tube ... 15/3
With 2nd ditto ... 14/9
The standard lightweight tyre.

'Python Road Racing'—
Cover ... 10/0
With 2nd quality tube ... 12/3
A sound hard-wearing speed tyre at a moderate price.



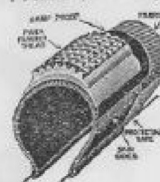
'Century Road Racing'—
Cover, skin sides ... 15/6
With 1st quality tube ... 18/3
The favourite for flexibility and security.

'New Ivorycord Roadster'—
Cover ... 10/0
With 1st quality tube ... 12/9
With 2nd ditto ... 12/3
Sizes—
26 x 1¼ and 1½, and 28 x 1¼ only.



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

TYRES (continued)—Constrictor Wired-on

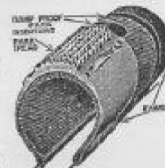


'No. 4 End to End'—
Cover, skin sides ... 17/0
With 1st quality tube ... 19/9
A safe speed tyre for bad roads.
Recommended for tandems.

'Super Roadster'—
Cover ... 19/0
Ditto, tandem ... 22/0
Cover, with 1st quality tube 21/9
Tandem, ditto ... 24/9

'Meredith Roadster'—
Cover ... 13/0
With 1st quality tube ... 15/9
With 2nd ditto ... 15/3
Egyptian cord, fully-rubbered.

Note the reduction on tube prices if ordered with cover.



Constrictor Inner Tubes

All sizes.
First quality, grey 3/6
Second quality, red or white... 2/9
Fitted Schrader valve
6d. extra
Constrictor inner tubes are 'blister-proof' and 'foolproof' (i.e. secured immune from nipping or blowing down between the wires on narrow-section rims.

Dunlop Roadster Tyres
in all sizes.



Dunlop Tandem ... 12/6 4/0
Dunlop Fort Translucent ... 12/6 4/0
Dunlop Magnum Cord 10/6 3/9
Dunlop Cord Roadster 8/11 3/6
Warwick Cord ... 7/3 2/9
Cambridge Cord ... 5/6 2/3
Beaded (all above tyres) extra 1/6
Clipper Carrier, 26 x 1¼ and 28 x 1½, w.o. only ... 7/6 3/0



Dunlop Wired-on Road Racing Tyres

Clipper Sports ... 6/11 3/0
Dunlop Road Racing Cord ... 7/11 3/6
Dunlop Road Racing Translucent ... 8/11 3/6



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

TYRES (continued)—Englebert

The tread of the Englebert Amber Cover (illustrated) is composed of pure Para transparent rubber of the very finest quality and the casing has been built to offer an exceptional resistance to hard wear. Guaranteed 18 months.

28 x 1 1/2, 26 x 1 1/2, 26 x 1 1/8, 26 x 1 1/4, ... wired 12/6
28 x 1 1/2, ... beaded 14/0

Hutchinson Wired-on and Beaded-edge Tyres Covers Tubes

*Roadster Cord, guaranteed 12 months, 26 x 1 1/2, 1 1/8, 1 1/4 and 28 x 1 1/2, wired-on	5/6	2/3
Doitto, 26 x 1 1/2, 1 1/8 and 28 x 1 1/2, beaded edge	6/6	2/3
'Globe Trotter', guar. 18 months, 26 x 1 1/2, 1 1/4 and 28 x 1 1/2, wired-on	9/0	3/6
Doitto, 26 x 1 1/2, 1 1/4 and 28 x 1 1/2, beaded edge	10/0	3/6
'Globe Trotter' Carrier, 26 x 1 1/4 and 28 x 1 1/2, 1 1/8, wired-on	10/0	3/6
Doitto, 26 x 1 1/2 and 28 x 1 1/2, 1 1/4, beaded edge	11/0	3/6
Special Speed, 26 x 1 1/2, 1 1/4, wired-on only	8/6	2/6
Open Sided Racing Cord, 26 x 1 1/2, wired-on only	8/0	2/6

Hutchinson Tubulars

Red Reinforced Road Tubular, 26, 27 and 28 x 1 1/2	12/6
All Black 'Tour de France' Tubular, 26, 27 and 28 x 1 1/2	12/9
Road and Grass Track Tubular, 26 and 27 x 1 1/2, 1 1/4	13/0
Path Racing Tubular, 26 and 27 x 1	13/6
Silk Sprint Tubular, 26 and 27, weight boxes	17/0



John Bull Tyres

'North Road' Tyre, guaranteed 12 months. All sizes.
Cover, w.o. 6/6
Doitto, b.e. ... 7/0
Tube, ... 2/9



The 'Granby' Tyre, guaranteed 12 months.

W.o., 28 x 1 1/2, 1 1/4, 1 1/8 and 26 x 1 1/2, 1 1/4, 1 1/8 ... 7/6
B.e., 28 x 1 1/2, 1 1/4, and 26 x 1 1/2, 1 1/4, 8/0; Tube, ... 3/0



The 'Land's End, guaranteed 12 months. All sizes.

Cover, w.o. 5/6
Doitto, b.e. ... 6/0
Tube ... 2/3



'J.B.' Gristly w.o. 26 x 1 1/2, 1 1/4 and 1 1/8	12/5
'B.E.' 26 x 1 1/2 and 28 x 1 1/2	13/0
Tube	3/6
'J.B.' Service, guar. 15 months, w.o., 28 x 1 1/2, 1 1/4, 1 1/8 and 26 x 1 1/2, 1 1/4, 1 1/8	10/0
B.e., 28 x 1 1/2, 1 1/4 and 26 x 1 1/2, 1 1/4, 1 1/8; tube	3/6
'J.B.' Speed, red rubber, cord foundations, w.o. only, sizes: 26 x 1 1/2, 1 1/4 and 28 x 1 1/2, 1 1/4—7/0; tube	3/0
'J.B.' Open Sided, 26 x 1 1/2, w.o. only, cover 7/6; tube	3/0

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

Tyres—PALMER (continued).



Palmer Roadster Cord, wired, 26 x 1 1/2, 1 1/4, 1 1/8 and 28 x 1 1/2, 1 1/4, 1 1/8. Cover ... 8/11. Tube ... 3/6
Beaded, 26 x 1 1/2, 1 1/4, 1 1/8 and 28 x 1 1/2, 1 1/4, 1 1/8. Cover 9/11. Tube 3/6
Palmer Heavy Special Cord, wired, 26 x 1 1/2, 1 1/4, 1 1/8 and 28 x 1 1/2, 1 1/4, 1 1/8. Cover, 10/6. Tube 3/3.



Beaded, 26 x 1 1/2, 1 1/4, 1 1/8 and 28 x 1 1/2, 1 1/4, 1 1/8. Cover 11/6. Tube 2/9
Palmer Buccaneer Cord, wired, 26 x 1 1/2, 1 1/4 and 28 x 1 1/2. Cover 7/3. Tube 2/9. Beaded, 26 x 1 1/2 and 28 x 1 1/2. Cover 8/3. Tube 2/9.



Palmer Viking Cord, wired only, 26 x 1 1/2, 1 1/4, 1 1/8 and 28 x 1 1/2. Cover ... 5/-. Tube ... 2/3
Red Viking Cord, 26 x 1 1/2 only, 5/3



Palmer Carrier Cord, wired, 26 x 1 1/2, 1 1/4 and 28 x 1 1/2, 1 1/4. Cover 7/6. Tube 3/0. Beaded, same sizes. Cover 8/6. Tube 3/0
Palmer Road Racing Cord, wired only, 26 x 1 1/2, 1 1/4 and 28 x 1 1/2. Cover 6/11. Tube 3/0.



TYRE LEVERS—

TYRE REPAIR OUTFITS AND SUNDRIES

Constrictor , large ... 1/0
Small ... 6d.
Dunlop ... 6d.
Midget ... 4d.
Chemico , long shape, with sticky patches ... 6d.
John Bull ... 6d.
Junior ... 4d.

Terry's 'Electric' Tyre Levers set, high-grade, hardened and tempered STEEL. They do their work quickly, and may be relied upon to give good service. Set of three ... 6 1/2d. Motorcycle-High-grade quality, reliable in use. Plated finish. Cycle size 6 1/2d. M/cycle size 1/0

Constrictor Sundries

Solution in tubes 2d., 4d. and 6d.
1 1/2 lb. tins ... each 1/0
Rim Cement, for tubulars, in tubes ... 6d.
1 1/2 lb. tins ... each 1/6
Tube Extractors ... 2d.
Prepared Round Patches ... doz. 6d.
Oblong ... 8d.
Round Canvas Patches ... doz. 3d.
Repairing Fabric 12 x 2in. ... 8d.
Doitto, 12 x 1in. ... 4d.



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

OUTFITS, Tyre Repair Sundries, &c.—continued.

John Bull Sundries—
 Sticky Tube Patches ... pkt. 2½d., tin, 5d.
 Sticky Patching Strip, 7½ x 1½in. ... for inner tubes roll 4½d.
 Ditto, 30 x 2½in. 1/10½
 Sticky Canvas Patches, 1½d., 2½d. and 3½d. ea., according to size
 Cover Repair Bands ... each 4½d.
 Valve Tubing, in tins or packets " 1d.
 Solution, in screw-top flasks each 6d., 9d., 1/4, 2/6
 Security Valve Caps 2d.
Mend-a-Tear Outfits, for repairing torn capes, leggings, waterproofs, etc. 8d.



The Constrictor Small Outfit

Tyre Stopping, for filling cuts in outer covers—
 Chemico, 6d. & 1/-
 'Unesdit,' cycle size 1/3
 John Bull 'Cutfills' 4½d.



The Constrictor Large Outfit

Rim Tapes,
 Flat ... 3d.
 Round ... 4d.
 Special endless tape for Endrick rims 3d.



Constrictor 'Plugit,' a cut-filling compound used in the Constrictor Repair Dept. for several years. Simple in use and effective in result. Recommended, per tin 9d.

Schrader Schrader Valve and General Pressure Tyre Gauge



Made by the Schrader Co. to Constrictors special design. The inside is standard Schrader, can be detached from stem, and permits of pressure testing. Valve stem retains left-hand hexagon nut each 1/0
 Valve insides, per box of 6 1/0
 Pump Co. accessories for Schrader Valves each 6d.
 Pocket Adaptors for ditto ... 3d.
 General Tyre Pressure Gauge ea 6/2



Constrictor Tacky Cement for fixing tubular tyres to rim

WATCHES, Handlebar
 Hind's 'Hanbar' Watches, specially made for the handlebar of a bicycle.
 Grade 1—Guar. for 2 yrs., 15/6. Grade 2 Guar. for 12 miles, 10/6. Grade 3, guar. in good order 5/9. Cliper, Wicks at 3/9
Watch Clips, Terry's do., illus. 1/0



BUILT-UP WHEELS

Best quality double-buttet or rustless spokes. Perfectly true. Dunlop narrow-section or Endrick rims (Black or Plated).

LESS cogs, lock rings and chain adjusters.

Brampton	Front wheel, wide-flange standard hub	10/6
	" " "Superb" hub	11/0
	Rear wheel, wide-flange racing hub... ..	12/6
	" " "double-cog, solid-spindle hub	13/0
	" " "hollow-spindle, complete with fittings	15/0
B.S.A.	Front wheel, wide-flange hub... ..	14/0
	Rear wheel, wide-flange or standard hub	16/6
	" " "double-cog solid-spindle	18/6
Chater-Lea	Front solid-spindle hub	14/0
	" "hollow-spindle hub with skewer	15/6
	Rear solid-spindle wide-flange, single-sided	16/0
	" "solid-spindle, dou le-screwed	17/6
	" "hollow-spindle, single-cog, complete with skewer and gudgeons	21/6
	" "ditto, double-cog, ditto... ..	24/0
Cykilbrake	Front, with standard clip fittings	25/0
	" "with quick release attachments	28/0
	Rear, with standard clip fittings	26/0
	" "with quick release attachments	29/0

Wheels built with the following hubs include cogs.

Eadie Coaster hub	26/0
Sturmev-Archer Tri-Coaster hub, top-tube control	40/0
Handlebar control	42/0
Sturmev-Archer 3-speed hub, top tube control	31/6
Handlebar control	33/6
Sturmev-Archer Coaster hub	20/0

Note—3-Speed and Coaster Hubs may be built up with tandem spokes and 1½in. chain line—no extra.

Tandem Wheels

Brampton	Front wheel	13/0
	Rear, single cog	13/3
	" "double cog	14/0
Chater-Lea	Front, solid-spindle	16/6
	" "hollow-spindle, with skewer	18/9
	Rear, single-cog, solid-spindle	19/6
	" "hollow-spindle, with skewer and gudgeons	23/0
	" "double-cog, solid-spindle	20/6
	" "hollow-spindle, with skewer and gudgeons	25/8
Cykilbrake	Front, with standard clip fittings	26/0
	" "with quick release attachments	29/0
	Rear, with standard clip fittings	28/6
	" "with quick release attachments	31/6
Sturmev-Archer 3-speed and Coaster hubs	see above	

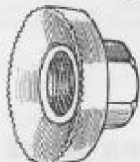
Wheel Stops (Rosa). Recommended for use with Cyclo 3-speed chain gear pair 1/0

Extra Charge for Rims other than Dunlop N.S. Steel or Endrick

Conloy rims, per pair 15/0
Kundtz laminated, Hostide or Boston sprint rims 11/0

Spokes tied and soldered, extra 2/0 per pair wheels.

F. H. GRUBB WING AND TRACK NUTS



Note the Gripping Edge on these hardened Steel Washers

Constant experiment has brought the F. H. Grubb wing nuts to as near perfection as possible. With perfect confidence we can say most emphatically that they are the best you can buy. Made, plated and finished in our own works from British blanks. Quantity alone is responsible for the price. Either wing nuts or track nuts add efficiency to any bicycle, whether quick-release or ordinary fork-ends, dispensing as they do with chain adjusters and facilitating wheel removal.

Track nuts for both front and rear spindles.

F. H. Grubb Special Locking Wing Nuts pair 1/6

F. H. Grubb Track Nuts leave no projections for path work pair 1/0

F. H. Grubb Wing Nuts, specially made for use with Sturmey Archer 3-speed and Tri-coaster hubs pair 5/0

Constructor Loose Wing Nut for front or rear ... front pair 10d. ... rear 1/0

Chater-Lea Wing Nuts, front or rear pair 1/0

B.S.A. New Pattern, with serrated grip washers, front or rear ... pair 2/6



Constructor Loose Wing Nut

The GRUBB List

of Cycling Wear

and Racing and

Training . .

EQUIPMENT

The following pages represent the widest selection of really serviceable lines ever offered to the real cyclist. Our prices will bear very favourable comparison, and the utmost value for money is assured.

No Shoddy Lines stocked. The man who buys on price alone invariably buys badly, and with the price must be considered the service obtainable from the article sold.

Send for Patterns. We shall be pleased to send patterns of our 2-piece Suits, Touring Shorts and Knickers, Touring Jackets, and Ladies' 'Rationals.' There is no obligation to purchase, but you are enabled to see for yourself the quality of the material.

Give height, weight and chest measurements when ordering Jackets, Knickers, Suits, etc.

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

ALPACA JACKETS

Suitable not only for racing but for touring and general wear.

Best quality Alpaca, black or grey, fitted with 3 pockets. Chest sizes—34, 36, 38, 40, 42 and 44in. Price 12/0

Ditto second quality, black only 10/6

Ditto in fine cotton, very serviceable and hard wearing, black only 8/6

Ditto, Black Sateen Racing Jackets, 34 to 40in. chest 6/6



BLAZERS—Ladies' and Gents'

Navy, Brown or Grey. Union Flannel.

Single breasted, three pockets 18/6

Shorts to match 14/6

DON'T put up with an ordinary Cape which is usually too short, and waterproof for a few minutes only.

In a **Paget's Oilskin Poncho** you have **maximum protection** from the weather—you **CAN'T** get wet! **Paget's Ponchos** are made with long full skirts. Thoroughly waterproof and **GUARANTEED** not to stick or crack. Light weight and easily carried. Put on in a second.

A **Paget's Poncho** is just the thing for the all-weather cyclist who "travels light." Used by all the leading clubs in the country.

Get your **PAGET Poncho** to-day!

PAGET'S PONCHOS

(Made with diagonal opening and fitted with elastic thumb loops)

Length—36, 39 and 42in.

Skirt—116, 124 and 130in.

Black 13/0 14/6 15/6

Khaki 15/0 16/0 17/0

Weight about 26ozs., according to size.

The 'Popular' Poncho

With or without Velvet Collar.

42 x 39 x 126in. (around skirt)

Black or khaki 12/6 each

Sou'westers (Super finish)

Black 3/9

Khaki 4/0

Cyclospats (with Leather toe-piece)

Black 8/0 per pair

Khaki 8/6 per pair

Leggings (made with Patent Clasp)

Black 9/6 per pair

Khaki 10/6 per pair

BROWN BROS.' Leggings

Fawn waterproof, for ladies or gentlemen

Medium quality 9/6 per pair

Best quality 15/0 per pair



FHG

F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

Cape Carriers (Roll-up)

Made of best quality, waterproof twill, fitted with two straps. Size of Cape roll—15in. long, 5in. wide ... Price 1/6
 Ditto, fitted with tool wallet, 18in. long, 9½in. wide. Size of pocket—8½ x 4 x 1in. ... Price 2/3

CYCLOSPATS

Genuine B.R.L.

The popular easy fitting waterproof leg protectors. Three models:—

- No. 84/2049 Knee length, elastic snap fastening ... 8/9
- No. 84/2050 Full length, to cover knee, elastic snap fastening ... 9/3
- No. 84/2064 Ditto, leather strap fastening, extra heavy material ... 12/0



Full-length and Knee-length Cyclospats

EMBROICATION

Tennie ... per bottle 1/0
 Not sold through the post.

EXERCISERS—Whitely

A necessity to cyclists for all-round development. Complete with chart

- Lady's strength... No. 2073 5/9
- Men's ... " 2074 6/6
- Athlete's ... " 2075 7/3
- Hercules ... " 2076 8/0
- Ex. Hercules strength ... " 2077 9/0

Terry Spring Exercisers



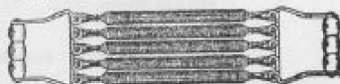
Famous the world over. Many testimonials received amply prove the makers' claims for them. They never wear out and no serious racing man should be without one if he would be really fit. Complete with chart in strong cardboard box.

No. 92—Sizes	...	0	1	2	3	3A	4
Price	...	10/0	11/6	13/0	14/6	16/0	17/6
No. 92A—Sizes	...	0	1	2	3	3A	4
Price	...	12/0	14/0	16/0	18/0	20/0	22/0



THE LEWIS (IMPROVED) SPRING EXPANDER

Can be used in the smallest possible space, and each movement is designed to definitely develop a certain group, or groups, of muscles. Every spring fitted with check cord to prevent over-strain, and with special quick attachment swivel couplings. All Springs 15in. long. Prices, etc.



1-Spring Expander, 20lb. pull	4/6	3-Spring Expander, 90lb. pull	10/6
" " " 30lb. " 5/6	4	" " " 80lb. " 10/6	
" " " 40lb. " 5/6	4	" " " 120lb. " 14/0	
" " " 60lb. " 8/0	5	" " " 100lb. " 13/6	
" " " 80lb. " 8/6	5	" " " 150lb. " 18/6	

Securely packed in strong box, complete with special Lewis Illustrated Exercise Chart. Spare springs, 20lb. pull 2/6 each; 30lb. pull 3/6 each.

GENTS' GLOVES

- Leather palm and fingers with Astrakhan backs ... 4/0
- Natural Horsehide Gauntlet, Wool lined, with large brown leather cuff, Everlasting wear ... 11/9
- Cheaper quality Gauntlet, lined ... 5/6
- Wool Aberdeen knit, leather bound wrist ... 2/6

- Feeding Bottles** in strong aluminium ... each 1/3
- Cages** for holding bottles ... single, 1/9; double, 2/0

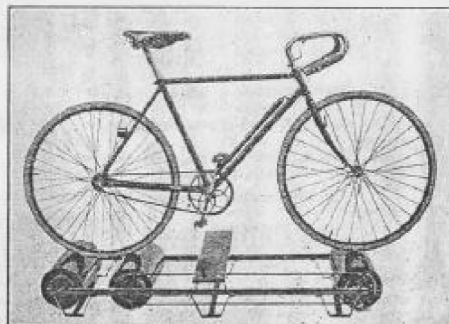
THE FAMOUS F. H. GRUBB HOME TRAINER

Adjustable to various wheel bases. Ball bearings.

Very quiet running. You can mount and dismount without assistance. Convenient in use.

Stowed black and beautifully finished.

Not a toy but a practical aid to the expert.



Price £3 15s. 0d. Cash, or 15/0 deposit and six monthly payments of 11/3. Sent Carriage paid anywhere in Great Britain.

HOSE—For Racing and Touring

Special line of lightweight summer hose, ribbed, with fancy turnover tops, in many neat shades, best quality wool ... pair 5/6

Supplied in ladies' sizes also.
 Cycling hose with fancy turnover tops, grey or brown leather mixture pair 3/6, 4/6 and 6/6

HOSE—continued.

Plain top hose, ribbed, grey, black, brown or dark heather	pair 4/0
Racing hose, fine black wool cashmere, ribbed	pair 3/6
Ditto, plain	pair 3/0 and 3/6

Ladies' Hose

Please note that these are specially made for cycling and are manufactured to our special order. The small foot and the neat ankle will appeal to Rationalist who requires a good hose to complete a smart outfit.

Made in three shades. Brown heather mixture, with fancy turnover tops, pair 5/0
Lightweight wool, very special line in various shades, with fancy turnover tops. Sure to please pair 5/0

KNICKERS—Flannel Touring

Very best flannel, in grey, khaki or navy. Tailor-made and well finished. Three pockets, fly-front, strap and buckle knee, double seat. Cut on neat but comfortable lines allowing every freedom 18/6
The same in grey only, cheaper quality flannel 14/6

Full Plus Fours, 2/0 extra per pair.

Woolen Tweed Touring Knickers to stand hard wear. All with side and hip pockets, double seat, strap and buckle knee. Cut full, giving Plus Four effect. Extra quality grey flannel 18/6
In light tweeds 16/6 and 17/6
Medium tweeds 12/6 and 14/6
Dark grey and brown mixtures 14/6
Grey herring-bone or self grey (medium shade) 12/6
Full Plus Fours 2/0 extra per pair.

Both tweed and flannel knickers are similar in cut to those illustrated on inside of back cover.

Racing Knickers. Strong black material of first-class quality and texture. Double-seated, strap and buckle knee, elastic waist, hip pocket. Very light and comfortable. May be used for touring in hot weather. The quality cannot be beaten. Exceptional value for money 8/0

Path Shorts

Elastic Waist, black only	2/3, 2/0, 3/0 & 4/6
All wool, black only	5/6
Heavy wool, extra quality, black only	6/6

All the above are excellent value for money, and far better than many to be obtained elsewhere.

Path Vests

Ribbed necks, quarter sleeves, white with coloured neck and sleeves, all shades	2/6
Ditto, better quality	3/6
All black, with roll collar	3/0

Club Coloured Vests

Plain ground with 4in. or 6in. band round the chest, high ribbed collar, each 3/0
If supplied in one dozen lots each 3/3

Unequal stripes, price on application.

PULLOVERS. Made in various shades, prices range from 5/6 to 20/0

GENT'S CYCLING SHIRTS

Best quality Khaki Drill with Polo Collar	6/11
Ditto, second quality, very hard wearing	5/6
Ditto, in Grey Ceylon Cloth	4/11

Please note.—Our best quality Khaki Drill and Grey Ceylon Shirts can be supplied with two Stand-up Detachable Collars at 7/6.

Cream Twill, with Polo Collar, an exclusive line of remarkable value	5/6
Good quality Cream Cotton, with Polo Collar	5/6

**LADIES' RATIONAL OUTFITS**

Private Fitting Room at Brixton.

Tweeds and Gabardines

Knickers	11/6 to 18/6
Plus Fours	13/6 to 20/0
Hats to match, V.A.D. style,	5/0 to 8/0

Ready to wear or made to measure. Wide range of patterns to choose from. Man-tailored. Made in styles as illustrated or with the short jacket to the hips, with plus fours.

Style A has a shaped waist with vent, but can be supplied without the vent to order.

Style B also has a vent and can be supplied without to order. Has a loose belt with one breast pocket and two patch pockets. The vent is strongly recommended.

Rationals, as illustrated, in strong Drills in Navy, Brown or Grey, 25/0



Style A



Style B

Ditto in Lightweight Gabardine, very strong and showerproof. Guaranteed to stand very hard wear and yet very smart. In Brown, Fawn or Grey, very neat shades 37/0

Tweed Outfits in various shades and qualities from 35/0 to 50/0

Send for Patterns. No charge for Patterns. Outfits made to measure without additional charge.

Both styles can be supplied with lace knees if required.

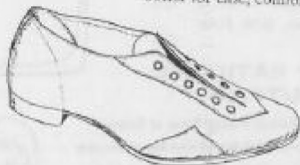
THE FAMOUS F. H. GRUBB CYCLING SHOES, British Made. Guaranteed Best Chrome Leather Uppers, Solid Leather Soles. Over 3,000 pairs in stock, all models available in half-sizes.

Always give Index Letter and Size, and state whether Lady's or Gent's Shoes are required when ordering.

These shoes are designed to meet the requirements of every class of cyclist, from the racing man to the purely utilitarian rider.

'There's one for every purse and every purpose.'

True comfort and ease in cycling can only be enjoyed with a well-fitting and flexible shoe. Perfect 'ankling' is impossible with a shoe that does not give to the foot. Ordinary shoes used for cycling cause discomfort and wear out quickly. Every pair of shoes sold uphold our reputation for quality. You cannot buy better for ease, comfort, or for durability.



Shoe A—Light, comfortable, and hard-wearing. Well worth the price asked. Eyelet fastening. Note the extra sidepiece to counteract wear of toe-strap and pedal; also stiffening at back.

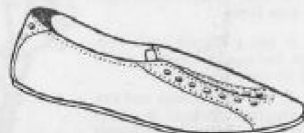
In black and brown 13/6

Shoe B—Really a first-class shoe, beautifully finished. Sewn sole, laced to toe, makes a smart walking shoe as well as a cycling shoe. Black or brown. Price 18/0

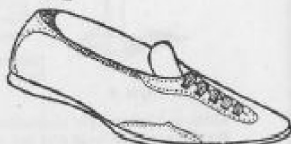


Shoe C—The pathman's shoe, but worn just as frequently by the fast roadman. Flexibility is the chief feature. Fits like a glove—the sort of shoe your bones and muscles forget. Weight: 5 ozs. the pair—that's all! Note lacehole at back.

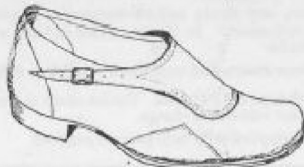
In black only 11/6



Shoe D—A Sturdy Shoe made specially for road racing, light and extremely comfortable, sewn sole, guaranteed all leather, and will stand all the hard work that we claim it to do 17/0



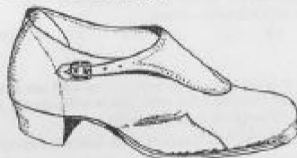
Shoe F—Special ALL WEATHER shoe. This has a flap across the top and fastens at the side with a buckle. A strong piece of elastic is fixed under the flap to prevent any sagging, and therefore keeps all the wet out. Black or brown. Also half sizes. 14 0



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

Keep in Trim During the Winter Months

SHOES—continued.



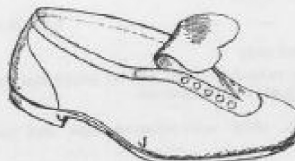
Shoe H—Really a lower-priced model of our 'D' shoe. It is nevertheless made of a very hard-wearing leather, is light and yet very strong where the strain comes. In black only 12/6

Lady's Shoe F—Extraordinarily popular. Allows every freedom for the foot. Impossible to get wet feet with this model. Elastic understrap. Strong strap and buckle fastening. The one-piece upper ensures long life. In black or brown 14/0



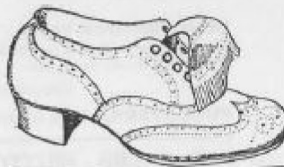
Shoe I—The generous flexible sides spell comfort from the first day you wear a pair. Eyelet fastening. Reinforced back. Soft yet very durable upper. In black only 12 6

Shoe K—A special shoe, light enough for the path but strong enough for the road, with very light horseshoe shaped leather heel. Note laceholes at back. In black only 15/6



Shoe L—A handsome shoe in black, trimmed with brown round the top, with white laceholes. Note the large toe patch which keeps the feet warm and dry. Reinforced back 15/6

Lady's Shoe M—A brogue shoe suitable for walking as well as cycling, especially suitable for the skirted rider. In brown only 15/6



F. H. GRUBB - BRIXTON - TWICKENHAM - LEICESTER

SHOES—continued.



Shoe O—A comfortable shoe with the upper in one piece, and white laceholes. Note the extra large tongue. This shoe has a special flexible sole enabling it to be doubled in half. In black only... 15/6

GENTS' SHORTS

Made with two side pockets, one hip pocket. As illustrated,
 In Navy or Grey flannel, best quality 15/6
 Ditto, in Grey Union flannel 10/6
 Ditto, in Navy Union flannel 11/6
 Ditto, Lightweight Tropical Suiting, very hard wearing
 and showerproof. Dark brown or fawn... .. 15/6
 Ditto, best quality, khaki drill, very strong 9/0
 Ditto, second quality, khaki drill 7/0
 Ditto, third quality, lightweight... .. 5/6
 Ditto, fourth quality, lightweight 4/0

PATH SHORTS—see page 60.

LADIES' SHORTS—Made with shuped waist, open at both sides, and fastened with buttons.

Khaki Drill Lightweight 5/6
 Brown, Navy or Grey Union flannel 10/6
 Ditto, cheaper quality, Navy or Grey 8/6

SKULL CAPS

Plain Cashmere 1/0 each

Racing Caps, with black peak, made in black satene 1/6

With green celluloid peak, very special quality 2/6
 This cap is fitted with the patented "Dinlight" peak. The "Dinlight" peak is of non-inflammable "Celastine" and covered by a fine protective wire mesh. Weight 1.02.

STOCKINGS—see page 59.

SWEATERS

Black Wool Cashmere, with button on shoulder,
 long sleeves, fine quality 7/6
 Ditto, very best quality 10/6
 Black cotton, button on shoulder 5/6
 Black cotton with stand-up collar, no buttons,
 fine gauge, short sleeves 3/0
Heavy Sweaters, black or grey worsted,
 with long sleeves and button on shoulder 8/6
 Grey honeycomb, with polo collar 7/6
 Ditto, with turn down roll collar, no buttons... .. 7/6
 Ditto, best quality, in polo or roll collar 10/6
 White honeycomb, polo or roll collar, no
 buttons, best quality 10/6
 Ditto, second quality 7/6



THE F. H. GRUBB CYCLING SUITS

In three styles—

Plain, Pleated, or Half-Split Backs.
 Knicker or Plus-Fours.

Suits	37/0 to 55/0
Jackets	23/0 to 32/6
Plus-fours	16/0 to 21/0
Knicker	10/6 to 16/6



Two Suits in One

A pair of long trousers can be put up into a business suit. Makes a refreshing change when on town.



NEW PATTERN CARDS.

NEW PRICES.

NEW PATTERNS.

We have the widest range of Tweed Cycling Suits ever offered, and we claim that they are also the smartest.

40 Patterns to Choose From

Tweed—browns, greys, mixtures, heathers, and beam-hones.

Our large stock enables us to give you almost "made-to-measure" cut and quality at ready-made prices.

An Economy Point. For an additional charge of only 1/6 we can supply extra seats for knickers, shaped, turned-in, and pressed, all ready to stitch on.

Jackets are available in 31, 36, 38, and 40in. Chest. All have three pockets, and our flannel jackets may be cut and made with or without belted back.

Knickers are available in the popular "plus-four" cut or in a neater cut for those who prefer it. All have double seats, knee and hip pockets, and a double-knee. All sizes from 28in. waist.

Send for Patterns To-day. Compare the quality of the Material

When ordering give

HEIGHT, WAIST AND CHEST MEASUREMENTS

Gent's Washable Summer Suits

Made in khaki drill, supplied with shorts, knicker or plus-fours. Jackets with buttoned back or plain lounge.

Price of jacket	11/0
Ditto, shorts	5/6
Ditto, plus-fours or knicker	12/0

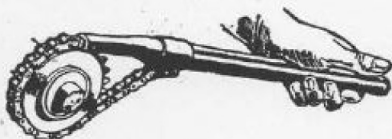
Grubb Accessories

FOR BETTER CYCLING.



GRUBB WING NUTS, made of special steel with hardened steel washers. Fronts are made slightly smaller than rear; note the serrated edge, well plated.

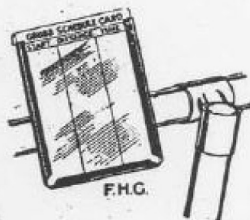
1/6 per pair.



GRUBB COG REMOVER, for removing cogs without damaging teeth. Will take any size $\frac{3}{8}$ in. cog, $\frac{3}{16}$ in. width made to order. Indispensable to the racing man. 2/- each.



GRUBB CYCLOMETER CLIP (Regd.).—Enables you to remove your front wheel without disturbing Cyclometer. Fitted in a few seconds. In Plated or Ebony finish—to suit round Tandem or Cycle front fork ends only, 1/3.



GRUBB SCHEDULE or ROUTE CARD HOLDER. Supplied with a dozen printed cards, and celluloid cover to prevent rain marking cards. Adds to the pleasure of your tour or to the success of your race. Very light and rigid. Dull Black finish, 2/-; Refills 3d. doz.



GRUBB PATH NUTS.—For front and rear hub spindles. Very necessary for track work, and obviates the use of chain adjusters. Hardened steel washers with Serrated edge, Plated finish, 1/- per pair.

THESE ACCESSORIES ARE MADE FOR
BEST

GRUBB ACCESSORIES

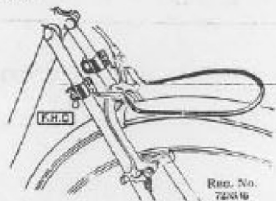
FOR BETTER CYCLING.



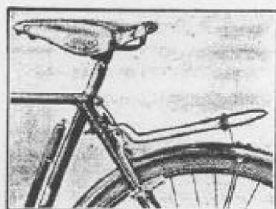
GRUBB WING NUTS, made of special surgical steel with hardened steel washers. Fronts are made slightly smaller than rear, note the Serrated Edge, well plated, **2/-** per pair.



GRUBB COG REMOVER, for removing cogs without damaging teeth. Will take any size $\frac{1}{2}$ in. cog, $\frac{3}{16}$ in. width made to order. Every Cyclist should have one. **2/-** each.



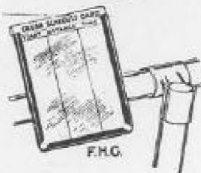
GRUBB BAG SUPPORT.—Will prevent your touring bag from rubbing and eventually breaking the mudguard. Made throughout in our own works, easily fixed, well finished, for $\frac{1}{2}$ in. round stays on Tandems and Cycles, weight under 4 oz. Plated **2/-**, Ebony **1/9**.



THE NEW GRUBB BAG CARRIER (Regn. Appl. for).—All the features of the bag support with the advantage of a rigid carrier. You can sling pannier bags from the side frame, use a big week-end bag from the saddle slots and still have room for a bundle on the after end. Weight 8oz. Easily fixed by boring two holes in the centre of guard either side of the steel bridge, sliding the cross bar along frame to its best position and tightening up the bolts. Coslettised and stoved ebony. Fits $\frac{5}{8}$ in. round Tandem and Cycle seat stays. **2/3**



GRUBB CYCLOMETER CLIP (Regd.).—Enables you to remove your front wheel without disturbing Cyclometer. Fitted in a few seconds. In Plated or Ebony finish—to suit round Tandem or Cycle front fork ends only, **1/3**.



GRUBB SCHEDULE or ROUTE CARD HOLDER.—Supplied with a dozen printed cards, and celluloid cover to prevent rain marking cards. Adds to the pleasure of your tour or to the success of your race. Very light and rigid. Dull Black finish, **2/-**; Refills **2d.** doz.



GRUBB PATH NUTS.—Made for front and rear hub spindles. Very necessary for track work, and obviates the use of chain adjusters. Hardened steel washers with Serrated edge, Plated finish, **1/-** per pair

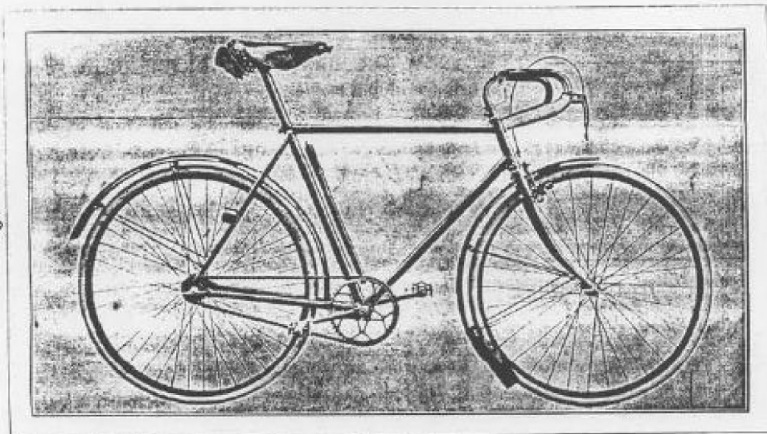
Everything Sent Post Paid.

THESE ACCESSORIES ARE MADE FOR
THE RIDER WHO WANTS THE BEST

THE NEW "TWICKENHAM MODEL"

BUILT THROUGHOUT IN THE GRUBB WORKS

Carefully planned intensive production makes price competitive. Yet every machine is backed by Grubb reputation



SPECIFICATION:

FRAME—20in., 21in. or 22in. Grubb Forward Opening Quick Release. 10½in. Bracket Height. 42½in. Wheelbase.

FRONT FORKS of "A" Quality Butted Steel Blades, reinforced, Chater-Lea Slotted ends. Brazed-on Pump Pegs, Chain Hook, Mudguard Eyes and Special Front Fork Lamp Bracket. Frame Coslettised and Enamelled Black or Cane. Crown and Tips of Front Fork Plated. 26 x 1½in. Black Endrick Rims, Palmer Speed Tyres, Double Cogged Hub, Fixed Gears, 70 and 75.

Brampton Chain. Brook's B18 Champion Saddle.

Bluemel's Noweight Guards with Front Extension.

Marsh Handlebars on Curved Stem with Constrictor Long Sponge Grips.

Front Pelissier Brake. Rear Reflector. Bluemel's Sterling Pump. Tool Wallet and Tools.

AND THE PRICE

£8

Deferred Terms arranged with
The Grubb Finance Co., Ltd.

£1 Deposit

and 12 Monthly Payments of 13/-

"It's Easier on a Grubb"

THE SPECIFICATION of this Machine cannot be altered, but additions can be made at retail Prices.