



## CLUB NOTES

**Leckhampton M.C.**—Winter activities have now commenced, and as all the members are thorough sportsmen, a Football Team has been organised. The Club programme includes Lectures, Debates and Model-building. **Secretary:** Master B. Rhodes, Cotswold View, Charlton Lane, Leckhampton, Cheltenham.

**Ormskirk Wolf Cub M.C.**—The Summer Session included Cricket, walks, etc., and recently the members made a trip to Chester. Several models, including the High-Speed Ship Cooler and the Electric Loco, have been exhibited in a local dealer's window with gratifying results. The Club is in a sound financial position with a balance of over £6 and Meccano Sets and parts to the value of over £20. **Secretary:** Senior Rover Master Chas. Walsh, 111, Wigan Road, Ormskirk.

**St. Luke's (London, W. 10) M.C.**—During the Summer months the members were in camp for a couple of weeks at Beadenham, near High Wycombe, and the holiday proved a great success. An interesting programme is being arranged for the Winter Sessions. **Leader and Secretary:** Mr. J. P. Betts, 178, Wornington Road, N. Kensington, London, 10.

**Herne Bay M.C.**—Some enjoyable picnics were held by this Club during the Summer months, and a monthly meeting for model-building was well attended. Winter activities started on September 17th, and with every sign of a successful Session. **Secretary:** Master C. W. Russell, 4, Clifton Villas, South Road, Herne Bay.

**St. John the Baptist's (Liverpool) M.C.**—The Winter Sessions commenced early this month, and meetings are held every Saturday evening from 7 p.m. until 9 p.m. in the Wellington Road Schools, Toxteth. Any boy who wishes to become a member should write to the Leader for further particulars. **Club Leader:** Mr. J. S. Lewis, 46, Durning Road, Liverpool.

**Cobham M.C.**—First Winter Session commenced with a membership of twenty. The programme includes Model Building, Swedish Drill, Games, Tournaments and Lectures. A Social Evening is being arranged for the close of the Session. **Secretary:** Master A. Phillips, The Fox and Hounds, Cobham, Surrey.

**Barnetby (St. Barnabas) M.C.**—Winter activities have now commenced, and as a means of increasing the membership, each member has been asked to bring a friend to the next club meeting. A stamp collecting section is proving a popular addition to the club's activities. **Secretary:** Master R. H. Ward, Laurel Villas, Victoria Road, Barnetby, Lincs.

**Woodville (Thornton Heath) M.C.**—During the Summer months a Cricket Club was organised, but now Winter activities have again commenced. As all the members are keen on Radio, this subject is being included in the club programme. **Secretary:** Master D. Morley, 12, Liverpool Road, Thornton Heath, Surrey.

**Wynberg (S. Africa) M.C.**—This Club was re-opened early in September, and since then many interesting meetings have been held, including a visit to the General Post Office, Capetown. Reports received from the Secretary show that the Club is well organised, and it should continue to make rapid progress. **Secretary:** Mr. A. J. Lewis, Tea Rooms, The Park, Wynberg, near Cape Town, S. Africa.

**Davenport (Stockport) M.C.**—Mr. Main has unfortunately resigned from the Leadership, but another local gentleman, Mr. Massey, has accepted office. The members hope to perform the Meccano play "Nonsense Nana" at the close of the Winter Session, and rehearsals have already commenced. A Football Team has been organised, and is proving very popular. **Secretary:** Master A. D. Stoker, 124, Bramhall Lane, Stockport, Cheshire.

**King Edward's (Birmingham) M.C.**—An interesting programme is being drawn up, and Meccano outfits are being carefully overhauled. A new Secretary has recently been elected, and it is intended to issue a Club Magazine very shortly. **Secretary:** Master A. Tims, Albert House, 23, Key Hill, Birmingham.

**West View (Nottingham) M.C.**—The Leader informs me that the prospects for the Winter Sessions are very good, and that the members are as enthusiastic as ever. Special features this year are being made of Model Building, Games and Lectures. **Leader:** Mr. H. W. R. Cousins, 494, Mansfield Road, Sherwood, Nottingham.

**Dudley M.C.**—Good progress has already been made by this Club, and great interest is being shown in a Competition for the simplest and most efficient Wireless Set. All the members are keen and enthusiastic. **Secretary:** Master C. Whitworth 19 Smith Street, Dudley.

# Meccano Photographers "Get Busy"

## Results of FOURTH PHOTOGRAPHIC COMPETITION

A CONSIDERABLE increase in the number of entrants and in the quality of the work rendered difficult the task of judging our Fourth Photographic Competition. On the whole

the subjects were well chosen and correctly focussed and exposed, and altogether the standard of work surpassed that of any previous competition.

The winner of class A is Gerald RENNISON of East View, Seaton Delaval, with the happy snap "Crossing Ships." This is an exceptionally clear photograph considering the view chosen; for moving water is at the best of times very difficult to photograph successfully.

Generally it comes out blurred or foggy, but in the winning photograph every ripple is clearly seen.

In Class B Master J. E. Baker, of 24, Had-dock's Hill, Sidley, takes the prize. His photograph entitled "The Foster Mother" is certainly a very interesting piece of work.

The subject is one of which we often read, where the mother sheep has died, and the young lamb has to be reared with a bottle. In this snap the lamb is evidently quite at ease with its new "parent"

and seems to be thoroughly enjoying the liquid refreshment so strangely administered.

The prizes in each case were Hawk-Eye Cameras, made by the Kodak Company. Next month we hope to publish in the "M.M." the photo-

graphs that secured the second prize in each section.

Those competitors who entered photographs in the competition but who were not fortunate enough to secure prizes

should not be discouraged, but should enter our Fifth Photographic Competition, particulars of which are announced on page 161.

Entries are particularly invited from our Overseas readers for these Com-

petitions, and a specially late date has been arranged for the Overseas sections.



Photo by] "The Foster Mother" [J. E. Baker



Photo by] "Crossing Ships" [Master G. RENNISON

## A Forthcoming Exhibition

An interesting Exhibition of Mechanical and Engineering Meccano Models is to be held by the St. Mary (Newington) Meccano Club on November 21/22 commencing at 3 p.m. All Guild members living in London should make a note of this date and visit the feast of good fun and enjoyment that is being prepared. There will be stalls showing Meccano models, Hornby train sets with the latest rolling stock, and a full size model of the wonderful Grandfather's Clock illustrated in this number. The address is St. Mary's Parochial Hall, Kennington Park Road, S.E.11, and can easily be reached by bus, tram or Underground railway.

## Club Recently Affiliated

**Ethersall (Nelson) M.C.**—This Club has already made good progress, and the first Club Exhibition was held on October 18th. The members are very proud of the fact that in a recent Swimming Gala at the Nelson Schools, Master Fred North, a member of the Club, came in second in the final for the nearest breast-stroke. The Dramatic Section of the Club recently produced "The Death of Mark Antony." **Secretary:** Master H. Dewhurst, 145, Waids House Road Nelson Lincs.



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# Competition Corner

Competitions have always been a strong feature of the "M.M.," and several new contests of interest will be announced in our future issues. Elsewhere on this page particulars are given of the £250 Championship Contest for the best models, which every reader of the "M.M." should enter.

## New Essay Competition

I am able to announce a new Essay competition the subject of which is:—

**"WHAT I INTEND TO BE, AND WHY."**

Everyone of our readers has his ambitions, and no doubt the majority already have decided what they intend to be. Many wish to be Engineers or Electricians. Some have a taste for farming or wish to go abroad as Planters or Ranchers. Others wish to be Soldiers or Sailors, or to enter one of the professions and become Doctors, Lawyers, Accountants, etc.

Every boy has his place to fill in the great scheme of life, and I feel sure it will be of interest to learn what Meccano boys intend to be, and also to know why they are choosing that particular walk of life.

Essays, to be written on one side of the paper only, should not exceed 1000 words. A prize of Meccano goods to the value of £1/1/- (to be chosen from our current list) will be awarded for the best essay, and three Hawk-Eye cameras (taking pictures 3½" x 2½") made by Kodak Ltd., to the next best. The winning essay will be published in the "M.M."

Closing date, 31st January, 1924 (Overseas 31st March).

## Fifth Photographic Competition

This competition closes on 30th November (Overseas: 29th February, 1924), and is divided into two sections (A) 14 years of age and under, and (B) over 14 years of age. The subjects are (1) A Family Group, (2) An Animal Study, (3) Miscellaneous Section. The First Prize in each section is a Hawk-Eye Camera (taking pictures 3½" x 2½") made by the Kodak Co.

## Puzzle Column

We shall commence a Puzzle column, particularly appealing to Guild Members, in our next issue. Prizes will be offered each month for the best puzzles submitted.

## Tom Sawyer Result

Three contests closed on 30th October. The entries for two of these, the Holiday Essay and Photo Essay competition, are now being classified, and the results will be announced in our Xmas number.

The winner of the "Tom Sawyer" competition is Master Albert E. Bebb, of Redditch, whose sensible comment reads:—

"I should say that the chief point of the Tom Sawyer story is that Tom used his brains and turned what would otherwise have been work, into pleasure.

"It shows us also that to do our duty brings its own reward, as although Tom did his duty reluctantly, he was amply repaid.

"Another point is that we always desire most that which we cannot have. The boys would not have wanted to whitewash the fence unless Tom had made them think that it was a pleasure to him."

A No. 1 Meccano Radio Receiving Set has been despatched to the winner, and I hope he will spend many happy hours listening-in to broadcast from the Birmingham station. A second prize of Meccano goods to the value of 5/- has been awarded to Miss Dickie Jones, of Gloucester, who also sent a very sensible comment.

## Are You an Artist?

In response to numerous requests received from Meccano boys, I have pleasure in announcing a Drawing Competition. As mentioned in this month's Editorial on page 141, the subject of this competition is to be:—**"The Editor of the 'M.M.' as I imagine him to be."** In this competition the drawings may be of any size and the subject may be treated in any manner desired, i.e., it may be either in black and white, pencil, crayon or wash.

There are no restrictions, except that the drawing must, of course, be the unaided work of the competitor. The competition will be divided into two sections:—

- (A) Boys under 12 years of age.
- (B) Boys of 12 years of age and over.

A prize of a Hawk-Eye camera, manufactured by the Kodak Company, will be awarded in each section. The closing date is 31st January, 1924, in the United Kingdom, and for entries Overseas, 31st March, 1924. I hope to receive a large number of entries for this, our first drawing competition, which, if well supported, will be followed by other similar competitions. The winning drawings will be published in the March "M.M."

## MECCANO £250 CHAMPIONSHIP CONTEST 21 Cups and 460 Medals

In the 1923-4 Model-Building Contest 21 Championship Cups, 110 Silver and 350 Bronze Medals will be awarded, together with a number of Special Certificates of Merit. The total value of the prizes will amount to £250. The various countries have been divided into seven groups, and these, again, are divided into sections according to the age of the entrants.

The awards will be made for the best models submitted—particularly for those models that embody ingenious and original features. The winner of each cup will hold the title of "Meccano Champion" for his particular group and section for twelve months. The cups, which have been designed for us by a well-known firm, are of superb quality, and very handsome in appearance. Each cup will be engraved with the name of its winner, and provided with a suitable pedestal.

### Meccano Gold Medallist.

The competitor who submits the best model in the entire competition will be awarded a specially-designed Solid Gold Medal. He will be the "Meccano Gold Medallist" for a year, and his name will be engraved on the medal, which will, of course, remain his property. Full particulars and entry form may be obtained from any Meccano dealer, or will be mailed (post free) on request to the Editor.

## Model Building Competitions

In last month's Magazine we printed a list of dealers who are arranging Meccano Model-Building Competitions for boys living in their districts. Below we give a further list. Full particulars, together with an entry form, will be supplied by any of the dealers on application.

- ASHTON-UNDER-LYNE  
S. Harrison Ltd., 43/5, Market Street.
- BATH—Barley & Sons, Centre of Corridor.
- BURNLEY—W. H. Frost, 179, Colne Road.
- BURY—Sam Taylor, 16, Silver Street.
- CHELTENHAM—Pantoy's Ltd., 7, Promenade.
- EDINBURGH—Thornton & Co., 78/9, Princes Street.
- KINGSTON-ON-THAMES—  
Stirling Ltd., 17, Clarence Street.
- LEEDS—J. S. Savile & Co., 12, Otley Road.
- LEIGH—H. M. Morris, 10, Market Street.
- LONGTON—Hughes & Harber Ltd., The Royal Press.
- MORECAMBE—A. Edmondson, 35/7, Queen Street.
- NELSON—Robinson, 8, Market Street.
- NORWICH—R. E. Pilch, Brigg Street.
- ROTHERHAM—Wallace Heaton Ltd., High Street.
- SITTINGBOURNE—Cleaver, 53/59, West Street.
- WIGAN—J. J. Broughton, 76, Market Street.

# CHOOSE YOUR OWN CHRISTMAS PRESENT

It is a wonderful sensation to sit down and study illustrations and descriptions, and select your own Christmas present. Try it! The Christmas Double Number of the "M.M." will contain advertisers' announcements of all kinds of splendid toys, books, and all manner of articles for giving pleasure to boys at Christmas. We are going to make at least one boy happy by giving him just the very thing he wants, from amongst the articles advertised in our columns.

Let us know what you want—  
On a Postcard

Obtain a copy of the Christmas number of the Meccano Magazine, which will be ready on December 15th, look at all the

articles advertised and then decide which you would like the postman to hand to you on Christmas morning. Write the name of it on the top of your postcard, marking it No. 1. Then write the name of the article that you would like second best and mark it No. 2. Do this with six articles altogether, write your own name and address at the bottom in very plain letters, and send the postcard to "Christmas Presents, Meccano Magazine, Binns Road, Liverpool."

To the boy whose list corresponds most nearly in order of merit with the total voting we will post the article that heads his list, to reach him on Christmas morning. "Christmas Presents" postcards must reach us not later than December 20th.

### Competition Closing Dates

1923	30 Nov.	Fifth Photographic.
1924	31 Jan.	Essay.
	"	Drawing.
	15 April	£250 Championship.
<b>Overseas Closing Dates</b>		
1923	30 Dec.	Holiday Essay.
	"	Photo Essay.
1924	29 Feb.	Fifth Photographic.
	31 Mar.	Essay.
	"	Drawing.
	30 May	£250 Championship.

# Who are the lucky ones?



"SUNNY JIM"

To whom is "SUNNY JIM" taking this jolly breakfast? Count the plates. There are seven of them. Seven lucky boys and girls are going to breakfast off "FORCE" and hot milk. To think of it is to smell the fragrant aroma of the malted whole wheat as it rises up from the steaming plates. *What* a breakfast!—or lunch—or supper! They might even have it with fruit! *You* might have had some, too, if you had persuaded mother to get it for you. Tell her it's *wholesome whole wheat*—she can't refuse you then, because it is so good for you. All grocers sell "FORCE." If you've never tasted it, send for the free sample.

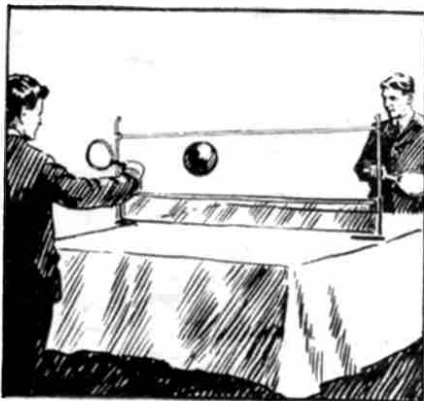
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(For Advertising Rates see page 168)

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### Buying Packets

IN our last issue we discussed what kind of postage stamps to collect in view of the fact that there are so many kinds other than those used for sending letters or packages through the post. We decided that perhaps the best plan is for the young collector to give his first attention to ordinary postage stamps, while collecting also any specimens of the less usual stamps that may come his way. The best way to begin a collection is to buy the largest packet you can afford. You may buy packets of stamps of the kind you want at anything from 1d. to £1,000 or over, so that prices may be truly said to suit all purses! Do not buy a 2/6 packet this week, however, and another 2/6 packet next week. If you do, there are certain to be many duplicates, or second copies, in the second packet. It is better to buy no stamps this week and a 5/- packet next week, so that you will obtain only stamps that may be put in your collection.

### Tongue Twisters!

In regard to increasing the size of your collection and the best method of mounting your stamps, we shall have more to say later. At present the main thing is for you to start your collection. Meanwhile, having purchased your packet, do not be in a hurry to buy an album and stick the stamps in. Devote your energies to trying to arrange your stamps into their respective countries by studying them. Read all the inscriptions. Most stamps have the name of the country on them somewhere, even if it is not in English spelling. If the name looks peculiar, try pronouncing it aloud, for you can often find out the name of the country to which a stamp belongs by doing this, and at the same time afford considerable amusement to yourself and friends by trying to pronounce some names such as Djibouti, Cesko-Slovenska, Azerbaijan, Chimborazo, and Kiantschou!

### Identifying Names

Not all stamps bear the name of their place of origin in English spelling or even in English letters. With few exceptions, however, all the countries of the British Empire are named in English or in a form almost as easy to read.

Sometimes the name of the country differs on various issues, such as Rhodesia. On the earlier Rhodesian stamps the name appears as "British South Africa Company," a fact very likely to confuse collectors who are unable to find that name in their catalogue. In the album, however, both kinds of stamps are mounted under "Rhodesia."

"Oranje Vrij Staat" is easy to identify if you follow the hint to try pronouncing the name of the country aloud. Miss out the "j" of "Vrij" and you hear yourself say "Orange Free State!" Another puzzling South African colony is the Transvaal, which appears on its earlier stamps as "Zuid Afrikaansche Republiek," or, abbreviated, "Z. Afr. Republiek." This is the Dutch for "South African Republic."

### Four Chief Groups

It will be found that the stamps of foreign countries may be divided into four main groups: (1) those on which the name of the country is in English spelling or nearly so, (2) those on which although the name is not in English it is in letters of the English alphabet, (3) those on which the name is in a foreign alphabet, and (4) those bearing no name of country.

The first group should offer no difficulty. It is easy to see that "Brasil" stands for Brazil, "Island" for Iceland, "Nederland" for the Netherlands (Holland), "Romania" for Roumania, and so on. Here, again, pronouncing the name aloud is a great help.

Sometimes the original name of the country is changed by an overprint. When this is the case the overprinted name is the latest, and therefore the one under which the stamp is to be classified. The term "overprint" denotes some inscription that alters the usage of the stamp, but not its value. On the other hand, a "surcharge" is an overprint that alters or confirms the value of a stamp.

The word "Francaise" or "Francais" appears on nearly all French colonial stamps. Do not be too hasty, however,

in calling these stamps French, but look for other names. If the name of another country appears, that is the one to which the stamp belongs. If there is no other name, then the stamp is French. Bear in mind, also, that "Franc" is the name of a coin as well as an abbreviation of "Francais."

The South American state of Bolivar, now a part of the Republic of Colombia, at one time issued postage stamps of its own. The country was called Bolivar in honour of a hero of that name, whose portrait and name often appear on stamps of other countries. Accordingly, whenever you come across a stamp bearing this name, see if there is another name as well; if so, this latter is the heading under which the stamp is to be classified and "Bolivar" is here used as the name of a person only.



An overprinted stamp to be classed under Togoland. The original stamp belonged to Dahomey, but also had the word "Francaise" on it.

**NEXT MONTH:**  
**STAMPS with "UN-ENGLISH" NAMES**

# A Handy WORK BENCH

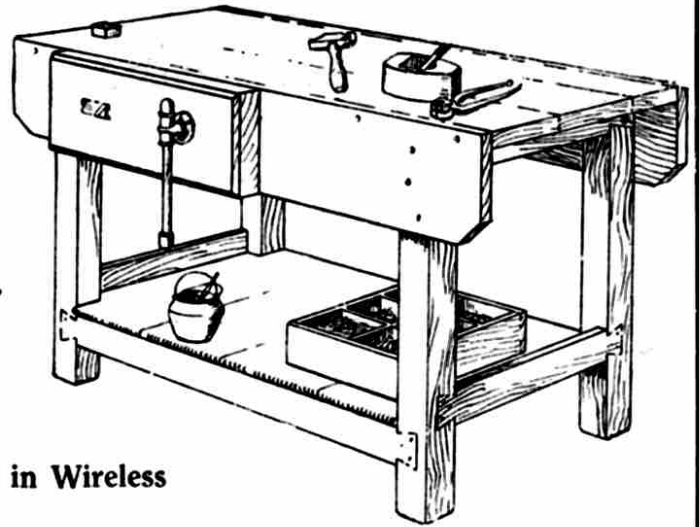
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("L.G.M." of "The Daily  
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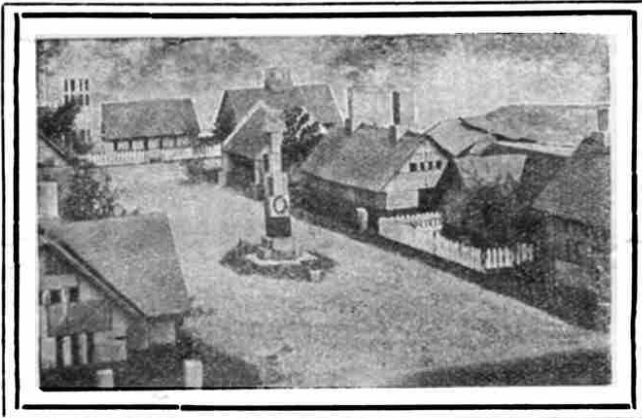
Boys, you will want to  
know how a Polar Bear  
baited an umbrella trap! You  
will treasure this great book  
of true and amazing stories,  
which for interest and rollick-  
ing fun cannot be beaten.

**PARTRIDGE & CO.,** 29, SHOE LANE, LONDON, E.C. 4. Please send for Illustrated Catalogue

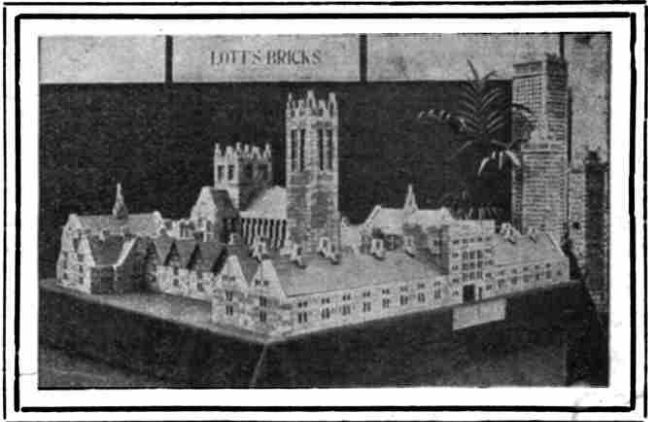
# LOTT'S BRICKS

A System of Beautifully Made Artificial Stone Blocks  
for Constructing Buildings from Plans by an Eminent Architect.

## A DELIGHTFUL BUILDING GAME



A Village constructed from Plans in Boxes 1 & 2 or 3.



Model of a University College constructed entirely with Lott's Bricks.

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With Plans, Bricks, Roofs, Fences, Trees, Etc.

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MANY OTHER MODELS EQUALLY ATTRACTIVE CAN READILY BE DEvised.

Not "Composite."

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Each Box is complete in itself and does not  
require tools or accessories of any kind.

**BRITISH  
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**TUDOR BLOCKS.**

Build Models of Half Timbered Design.

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Ready Shoruy.

**GARDEN SETS.**

Containing Trees, White Paling Fences,  
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Box 1. - 4/-    Box 2. - 6/-

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And all leading Toy Emporiums  
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Typical New York Skyscrapers.

See what other Boys have done and  
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**FREE** Prize  
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Designs

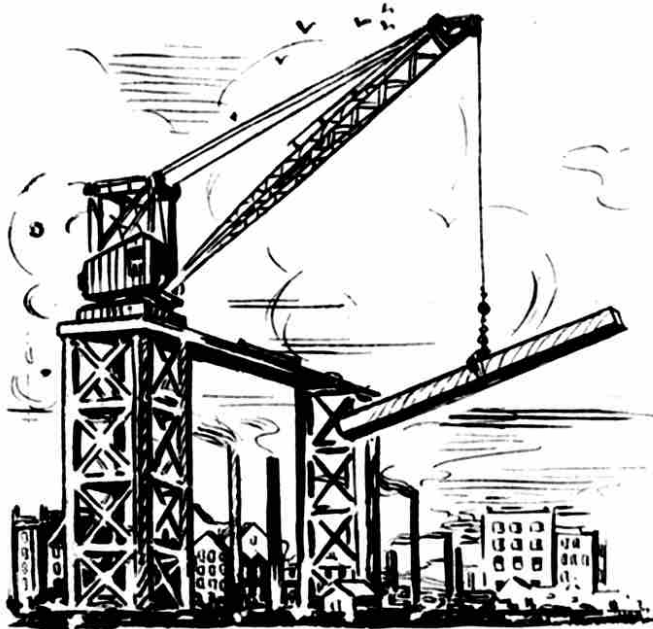
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LOOK FOR OUR SPECIAL ANNOUNCEMENT NEXT MONTH

**LOTT'S BRICKS LTD., WATFORD, England**



## A Chain is as Strong as its Weakest Link

Tons of steel, tons of solid stone and masonry are carried and slung by huge cranes over the heads of the public in every-day building operations.

One weak link in the chain—a few broken strands in the ropes—a flaw in the metal-work construction—might lead to disaster. Great builders and engineers realise the vital importance of testing every little part in the construction of their cranes and other building apparatus.

Even your own bodily fitness is dependent upon very important little things. Your teeth, for instance, can have a tremendous effect on your health. Neglected teeth will decay and form poisonous acids that pass into your body, causing serious illness.

You cannot be really fit and well unless you have sound teeth. Sound teeth are clean teeth.

It is a simple and pleasant matter to keep the teeth in perfect condition by the twice daily use of Gibbs Dentifrice. It cleans and brightens the teeth by removing the greasy food deposits and polishing the millions of tiny waves and facets into which the enamel of a normal tooth is divided.

It is these facets of the enamel (seen only through a powerful magnifying glass) which give the bright, sparkling appearance to clean teeth.

Gibbs Dentifrice is most convenient—a solid cake, protected by an aluminium case—it cannot spill or squeeze out.

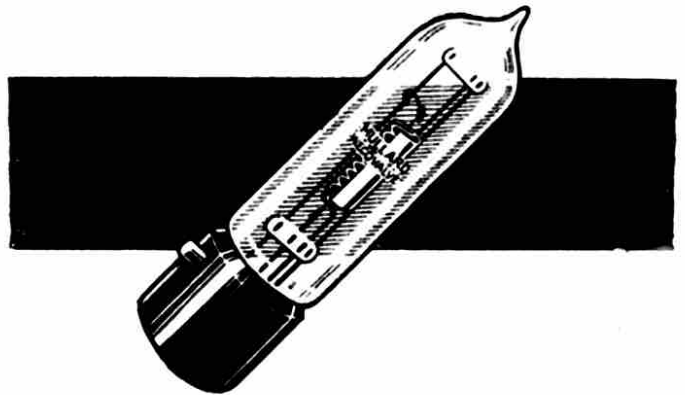
Your chemist can supply you with Gibbs Dentifrice at the following prices: Large size 1/—, De Luxe 1/6, Refills 11d., Popular size 7½d.

### “The Fortress of Ivory Castles”

**FREE!** Your little brother or sister will be keenly interested in the Gibbs Fairy Book “THE FORTRESS OF IVORY CASTLES”—a sequel to the famous “Ivory Castle Fairy Book”—an enthralling story comprising 36 beautifully illustrated pages. Sent post free, together with a useful size sample of Gibbs Dentifrice, on receipt of 3d. in stamps to cover cost of packing and postage.

D. & W. GIBBS LTD. (Dept. 81 F.U.),  
Cold Cream Soap Works, London E.1.

# Wecovalve talks



## No. 1

*The Mullard Wecovalve represents a distinct advance upon valves of the “Dull Emitter” type.*

One Wecovalve operates with perfect satisfaction from a single dry cell of 1½ volts.

Even with this small voltage, a resistance is necessary since loud signals can be obtained from the Wecovalve without the filament being made to glow at all.

The single cell will last for weeks working 4 to 5 hours per day.

*No other valve has these advantages.*

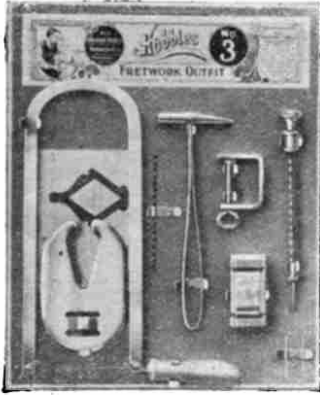
*Fit your receiver with Mullard Wecovalves to-day.*

# Mullard

Advt. of The Mullard Radio Valve Co. Ltd., Balham, S.W.12.  
(E.P.S. 75).



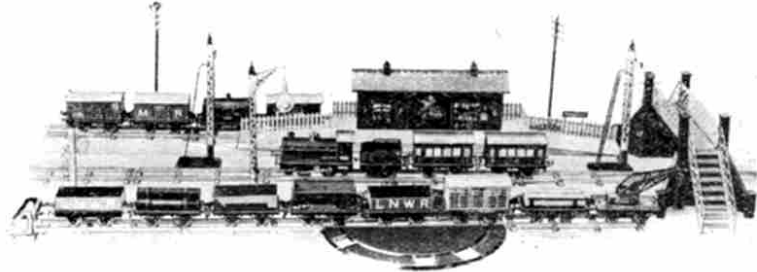
# THE BOYS' STOREHOUSE



From 4/- to 32/6

We are sole agents for Liverpool and District for Hobbies famous Fretwork Outfits, Tools, etc. Large Catalogue with 1/6 design, post free 1/-

## New Hornby Presentation Set



A Complete Railway for £6 : 19 : 6d., or we can sell you any single piece.

### Free Lists by Post

for

**Meccano** Outfits & Trains; **Wireless** Parts and Books; **Metals**, Sheet, Rod & Tube; **Fret Timber**, and 3-ply Wood

**C. LUCAS (M), 35, Manchester St., LIVERPOOL**



**No. 11. Empire Theatre of Varieties.**

This is a beautiful and entertaining toy, with all the romance and glamour of the stage. The pleasure to be derived from the performance, given by the eight Artistes, is extreme. The show is a tremendous success at a Children's Party, and a supply of Programmes can be given round by the "Ushers." All the Stars are billed on Special Posters.

Price ... 6/- complete, post free.



**No. 16. Punch and Judy.**

A most clever and realistic performance can be given with this show. Have you ever seen old Punch and Judy, and Toby, and the Ghost, and all the other funny old Figures? Whether you have or not makes no difference, because anyone can make heaps of fun. Try one for entertaining your friends!

Price ... 4/6 complete, post free.

SEND FOR FULL LIST OF 21 ENTERTAINING TOYS

FROM

**MATHEWS' MODEL TOY FACTORY**

Short Street, LEICESTER

**Cars on Railways** (cont. from page 141)

without rest. Some of the cars cover nearly 150 miles every day.

The engine develops 60 h.p., and ignition is by both high tension magneto and battery. The petrol consumption is approximately 5-7 miles to the gallon. The engine also drives a small generator for the lighting. In winter the car is heated by passing the exhaust gases through pipes laid along the sides of the car near the floor. The brakes are applied by compressed air from a small compressor, similar to those used in some motor garages for pumping up car tyres.

These rail-cars are used on branch lines where there is little traffic, because in these circumstances they are more economical than steam locomotives and coaches. It is expected that in the near future larger rail cars will be built. These will have double-swivel trucks, more powerful engines and double-end control.

**The Men Who Gave Us Radio**—(cont. from page 151)

passed a wire, projecting into the space occupied by the filings, but not touching each other. To ordinary electric currents, these filings were a bad conductor, but when subjected to high frequency currents, such as the spark from an induction coil, they instantly became a good conductor. By connecting them in the circuit of a battery and a Morse recorder it was thus possible to make them record signals from a distance.

**Branley**

Working on this principle Professor Branley, of Paris, invented (in 1890) his "coherer" which, as we shall shortly learn, was the detector subsequently improved and adopted by Marconi.

**NEXT MONTH.**

The concluding instalment of the series will deal with:—

**LODGE, POPOFF, RIGHI, & MARCONI**

**Small Advertisements**

Small advertisements are inserted in these columns at 1/- per line (average seven words to the line), or 10/- per inch (average 12 lines to the inch). Cash with order. Letters to Advertisement Manager, "Meccano Magazine," Binns Road, Liverpool.

**FOUNTAIN PENS** complete with filler and box marked 10/6. Our price 1/9 post free. A useful present. Box No. 21, c/o "Meccano Magazine," Liverpool.

**ADVICE, HANDBOOK & CONSULTATION FREE.** King, Registered Patent Agent, 146a, Queen Victoria Street, London, E.C.4. 37 years' references.

**SMALL COMPOUND MICROSCOPE**, with 3 Powers, 35/- A. K., 101, Caythorpe St., Moss Side, Manchester.

**Kensington Model Dockyard**



**SAILING YACHTS AND FITTINGS**

MOTOR & STEAM BOATS,  
MODEL RAILWAYS,  
ELECTRICAL APPLIANCES,  
MECCANO OUTFITS & PARTS  
ALWAYS IN STOCK.

**C. H. LORBERG,** C. H. & E. F. LORBERG  
Trustees  
185, Kensington High St., London, W.8.

Price List "M" Post Free 3d.

**WANTED**

WANTED, "MECCANO MAGAZINES." Nos. 1 to 7, and No. 10 intact. 1/- each offered. J. A. A., Box 23, "Meccano Magazine."

**MAKE YOUR OWN ELECTRIC LIGHT**

5/-



Every "Meccano Boy" who is interested in Electricity or who one day wants to be an Electrical Engineer should get one of these wonderful Dynamos and learn how Electricity is made. They are easy to work. Will light brilliantly 4-6 v. lamps and are backed by Green's many years experience. Send now! Delivery by return. Dynamo 5/-, Post 6d.

**GREENS, Dept. N., 85, New Oxford Street, London.**

- BRITISH EMPIRE. ALL MINT.**  
 CYPRUS, Script, 10 paras grey and yellow 1d.  
 CHINA on HONG KONG, Script, 1 c. brown, 1d.;  
 2 c. green, 1 1/2 d.; 4 c. red, 3d.  
 IRISH FREE STATE 4d. (Arms), indigo 5d.  
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**POSTAGE EXTRA.**

**ALEC KRISTICH** (Member N.R.P., 279),  
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**FREE! THE SMALLEST STAMP in the WORLD.**

The "M.M." packet of stamps containing this remarkable stamp and also Mauritius, Russia, NIGERIA, Jamaica, SCHLESVIG, Victoria, TANGIER, Brazil, DECCAN, Cape, POLISH SILESIA, Czech, BULGARIA, Venezuela, TRAVANCORE and 14 PICTORIAL UKRAINE (30 splendid stamps in all) will be sent FREE to all who send 1 1/2d. postage and ask to see my special approval sheets. I supply EVERYTHING for Stamp Collectors at very lowest possible prices.  
**VICTOR BANCROFT, Philatelic Dealer, MATLOCK.**

**250 DIFFERENT STAMPS.** Catalogued over £1. 1/- post free. Kraus & Co., Cheapside, London.

**STAMP COLLECTORS!** Be sure you get "The Philatelic Magazine," the fortnightly stamp newspaper, 3d., from any newsagent, or 4d. post free from Publisher, 63, Windsor House, Westminster, S.W.1.

**100 Diff. Stamps Free**, incl. Colonials, S. American, China, etc. (No Europe) to applicants for approx. See my famous 1 1/2d. stamps. Fleming, Queens Park, Chester.

**FOR POSTAL ORDER 1/-**

and request to see my famous approval sheets I will send packet of 200 foreign and colonial stamps catalogued to 4/-.

**THOS. SCOTT, 154, Wellesley Road, ILFORD, Essex.**

**50 BAVARIA FREE!**

All different and well worth 2/-. Just ask for my popular Approval Packet (not sheets) of 200 Selected Stamps on approval at 4d. each, and you will receive the gift sent by return post and the Wonderful Approval Packet.

**SUPREME VALUE IN XMAS BARGAIN PARCELS.** Complete Outfits 5/-, 10/- and 20/- contain the best of everything it is possible to include for the money.

**C. McCRAIGHT, 13, Pole St., NOTTINGHAM.**

**SELF-FILLING FOUNTAIN PENS**, safety cap, gold nib, 1/9. Powerful Electric Torches, 1/9. Nickel-plated Watches, 6/6. Cameras, wonderful value, 4/6 and 7/6. Post Free. Meccano Parts given free. F. Fox, 2, Station Road, Whitley Notley, Witham.

**CINEMA FILMS.** 100 ft., 1/- Post Paid. Phillips, 63, Ewart Street, Brighton.



**Skids Football**

**JUST LIKE THE REAL THING.**  
A Chum and a Table are all you require.

Order your Team to-day and start a League among your Chums. **Team Set** (11 a side) 2/6, **League Set** (11 a side) 10/6. Also **SKIDS CRICKET** (11 a side) 3/6. Post Paid. Postage abroad 1/- extra.

Ask your Dealer for them, or write direct to **SKIDS GAMES (M Dept.), 61, Cathedral St., GLASGOW.**



**DON'T BE BULLIED**

I can teach you to take care of yourself under ALL circumstances without the aid of weapons by absolutely the BEST means of self-defence ever invented, namely, **JU JITSU**, the wonderful Japanese art. Easy and simple to learn. Far more effective than Boxing or any other science. Send Four Penny Stamps NOW for TWO SPLENDID ILLUSTRATED SAMPLE LESSONS and full particulars, or P.O. 2/6 for a Large Portion of my Course. You will be more than delighted. **Prof. Garrud, Dept. V., 10 Queensway, Hanworth, Feltham, Middlesex.**

**TO CLUB SECRETARIES**

Owing to the increasing number of orders from club members, we are now offering special terms to Meccano Clubs for all Wireless Accessories.

Secretaries, see that your Club members do not get overcharged by local dealers. Please enclose 1d. stamp and state name of Club.

G. Hare, c/o The H.S. Radio Co., 36, Willes Road, Leamington.

**SAVE YOUR PRINTING EXPENSES**

Many jobs you now send to the printer can be produced on THE SALCOGRAPHIC DUPLICATOR. Simple, Cheap and Clean. **Output, 9" x 14", 10/- complete.** Postage 1/-. **SMITH, 31, Fellows St., London, E.2.**

**BOYS! BUY THE VERY BEST CHOCOLATES**

at cost prices and save money. These delicious assorted chocolates are packed in beautifully coloured boxes and are guaranteed pure.

1 lb. box for 1/3 post free.

1 lb. box for 2/3 post free.

3 lbs. in special art boxes, 5/- post free.

Ask your mother and sister to try this special bargain offer. Postal Orders to:—

**CONFECTO CHOCOLATÉ CO., 14, Elliot Street, Liverpool.**

**Useful Tools**



Our illustration shows a type of screwdriver useful for reaching bolts in inaccessible places on models. We are disposing of these screwdrivers, whilst our stock lasts, at the special price of 10d. each, post free. **MECCANO LTD., Binns Road, Liverpool.**

**26 Weekly** or 30/6 cash buys a Mead Gramophone with a giant metal horn, extra loud sound, box, massive oak case and 40 tones. Carriage paid, 10 Days' trial, 200 Needles and 5/- 'Roo-let' gramophone FREE. Table-Grands with Wireless S.T.; Portables and Cabinet Models at HALF SHOP PRICES.

**Mead COMPY.** Write for catalogue. (Dept. G. 200), Birmingham

**A GOOD FOUNDATION**

for any model can be made with Plasticine—in 16 Colours. By mixing, various kinds of Marble can be imitated. Plasticine has scores of uses besides modelling. Let us tell you of some. Specimen Box of 5 Colours, The Rainbow, Post-Free, 1/2.

**ALSO PLAY-WAX AND NOVLART.**

**HARBUTTS' PLASTICINE LTD., 99, Bathampton, Bath.**

**CUT THIS OUT**

"Meccano" Pen Coupon. Value 3d. Send 5 of these coupons with only 2/9 direct to the Fleet Pen Co., 119, Fleet Street, E.C.4. You will receive by return a splendid British 14-ct. Gold Nibbed Fleet Fountain Pen value 10/6 (Fine, Medium, or Broad Nib). If only 1 coupon is sent, the price is 3/9. 3d. less for each extra coupon up to 4 (Pocket Clip 4d.). Satisfaction guaranteed. Your own name gilt letters, either pen 1/- extra. **Lever Self-Filling Model with Safety Cap, 2/- extra**

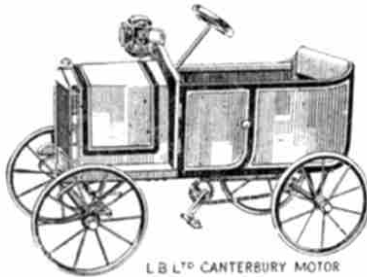


**TRIANGTOIS**  
The World's Best Toys. REGD.

# For CHRISTMAS PRESENTS

Here are a few examples of the beautifully finished British toys made by Lines Bros. They represent the highest value, make excellent Christmas presents, and can be relied upon to give splendid service throughout the year, for they are made to withstand rough treatment.

ASK FOR THEM AT YOUR TOYSHOP.



L.B. LTD. CANTERBURY MOTOR

**CANTERBURY MOTOR**

For children 3-8 years, with pedalling gear, upholstered seat, side door to open, Rolls Royce pattern radiator and lamp 65/3



L.B. Ltd. M72

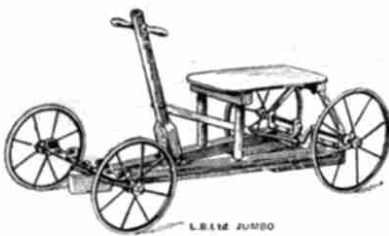
**HUSTLER MOTOR**

For children 3-9 years, complete with pedalling gear, lamps, mascot, tool box, licence card carrier, horn, windscreen and opening door 115/6



**THE FAIRYSCOOT**

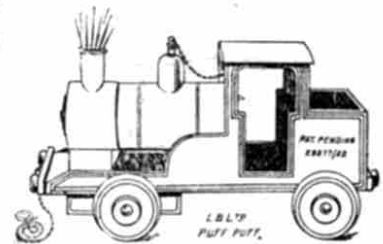
For boys and girls. Strongly made on cycle principles of solid drawn steel tubing. Aluminium footboard, 12 in. wheels with 1/2 in. wired-on tyres. Plated handlebar. Outlasts several ordinary scooters ... 27/-



L.B. LTD. JUMBO

**THE JUMBO RACER**

Comfortable, safe and strongly made. Handle-propelled. 35 in. long. For boys and girls ... 23/3



L.B. LTD. PUFF PUFF

**PUFF PUFF ENGINE**

Puffs like a real engine when drawn along. Fitted with a whistle. Splendidly painted, lined and varnished. 21 1/2 in. long ... 15/-



**No. 9 PERIOD DOLL'S HOUSE**

Four rooms, hall, staircase, fireplaces, rough cast half timbered and red brick exterior, curtains, sun shutters, brass knocker and letter plate. 27 in. wide, 31 in. high, 16 1/2 in. deep. 60/-



**THE FAIRYCYCLE**  
(Regd. Trade Mark).

Built like a bike—but safer. Adjustable saddle and bars, mudguards, free wheel, brake, ball bearing rubber pedals, 12 in. wheels with 1/2 in. wired-on tyres. Look for the triangle trade mark on the frame. 59/6. Or with Pneumatic Tyres and Ball-Bearing Tangent Spoke Wheels, 89/6. None genuine without the Fairy cycle Trade Mark.



L.B. LTD. DOLL'S PRAM

**No. 10 C.T. DOLL'S PRAM**

On strap-hung outside C springs. 12 in. wheels with rubber tyres. 24 in. by 13 in. body. Beautifully panelled and painted. Apron included. Reversible Hood. Nickel-plated Tubular Handle Rods and Fittings ... 59/3

Look for the famous Triangle Trade Mark on all good Toys.

**LINES BROS. LTD.** City Showrooms **9, Fore St., LONDON, E.C. 2.**

Works: OLD KENT ROAD, LONDON, S.E.

## CONJURING for the XMAS PARTY

It's great fun being a conjurer at the Xmas Party—and with Gamages help, it's quite simple. Send for Conjuring List and see the host of tricks and jokes stocked—all easy to perform—but very mystifying to your audience.

## CONJURING CABINETS



A wonderful assortment of mystifying tricks, complete with book of instructions.

Box	A	B	C
	7/9	10/9	15/9
	Post 4d.		
Box	D	E	F
	22/6	35/-	42/-
Box	G	H	I
	63/-	84/-	105/-

### Boys' Conjuring Cabinets

Just the thing for the boys. A grand assortment of startling tricks complete with instructions. Prices:

**3/- and 4/6**

Post 3d.

### Combined Magic Lantern and Cinematograph

All are complete with oil lamp, film and lantern slides. (Measurements include chimney)

Height	Films supplied with each C'matgph	Glass Slides supplied with each C'matgph	Prices with Oil Lamp
7"	1 blk. film	1 1" wide	5/6
11"	1 .. "	1 1" ..	7/6
11"	1 .. "	3 1" ..	12/6
13"	3 .. "	6 3" ..	21/-
	(each)	glass slides	

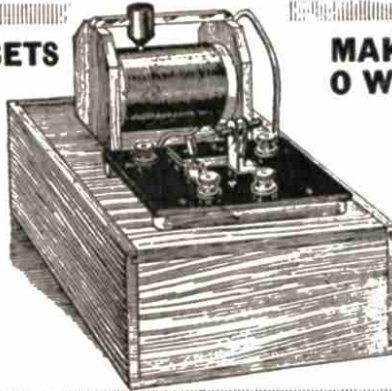
# The World's Big Store for Boys *Gamages* OF HOLBORN

## GAMAGES—the Wonder-Store FOR BOYS

Yes, boys! When you've seen this Great Store at Holborn, you'll declare it to be "just fine."—Everything that delights the heart of a boy is here in great variety. Come along and see them all. Bring your friends, too!—They'll be delighted.

## CRYSTAL SETS IN PARTS

Wonderful offer of these splendid Crystal Sets in Parts. You can now listen-in at a very small cost. The illustration shows the set made up ready for use. All parts are beautifully finished. Size of box 10 1/2" x 8" x 4". Send your order to-day. There are only a few left.

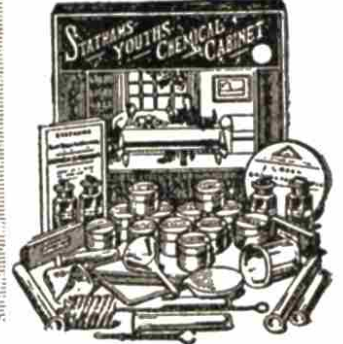


## MAKE YOUR OWN SET

Full instructions—quite simple to carry out, are given with every box. Besides the fun of "listening-in" you get the additional pleasure of having made the set.

Price **17/6**  
Post 9d. extra.

## MAKE YOUR OWN EXPERIMENTS



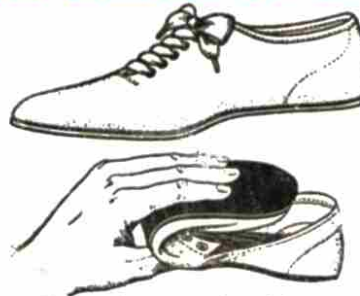
## STATHAM'S CHEMICAL CABINETS

Chemistry at Home, you'll find, is a most interesting hobby—especially for the dull Winter evenings now on us. But be sure your material is good—get it at Gamages, No. 1 Box. Packed in strong cardboard box, containing 38 Chemical Tests and Apparatus. They do not contain strong acids or other dangerous articles, and are always quite safe. Price, including book of experiments:—

**14/6**

Postage 9d.

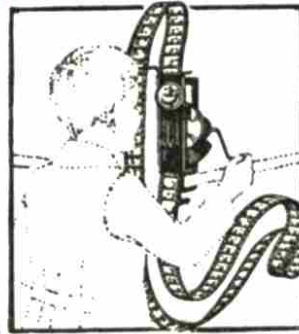
## THE 'WINRUBER' GYM SHOE



in black, brown and white canvas. Guaranteed to *outlast three pairs of the so-called cheap plims*. Leather impregnated with pure rubber, giving the durability of the former with the elasticity of the latter. "Winrubers" soles cannot come away from the uppers. They are sewn on and are extremely light, delightfully cool to wear and they do not "draw" the feet. Ideal for indoor, outdoor, sports, holiday and general wear. When ordering state colour required, also exact size.

Sizes and Prices—

Men's, 6-10 **8/11**      Youth's, 2-5 **7/4**      Boys', 7-10 **5/6**  
each. Postage 6d. and 9d. extra.



## The New 'Cine-Toy'

Gives moving pictures just as a cinematograph. Supplied complete with one transparent film and one paper film. Any films may be used. And you can make your own films; and colour them on the blank paper film supplied. Price complete with instructions:—  
Extra paper films 3d. each.  
5 different subjects. Ordinary films 6d. length. **5/-**

# This Monster Illustrated XMAS LIST—FREE!

Gamages has, already, got that "Christmassy" look about it. The departments—especially the toys, models, games, etc., are even now crammed with such a wonderful variety of good things as to keep boys looking round in wonder for a whole afternoon. The Great Bazaar will be opened very shortly, and to give you an idea of how splendid it will be, and the good things that will be on sale, Gamages have compiled a huge Xmas Catalogue, a copy of which is **YOURS FOR THE ASKING**. Just drop us a card and we will send you a copy post free. You can then make a list of what you want, and **COME ALONG AND SEE THEM**.

**GAMAGES, HOLBORN, LONDON, E.C. 1.**

PUBLISHED BY MECCANO LTD., BINNS ROAD, LIVERPOOL.  
Printed by Stenbridge & Co. Ltd., Albion Street, Leeds.

