

The MECCANO ENGINEER

A Magazine for Meccano Boys

1917

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August—September

Published by MECCANO COMPANY, INC., Building No. 10, Bush Terminal, Brooklyn, N. Y.

1917

Open Secrets

Our Prize Contest.—Is your name on the list of winners? If not, why not? Another grand new Contest is now starting and there are some big cash prizes to win. Start building at once!

The Meccanograph.—In a former issue of the Meccano Engineer we had a good description of the Meccanograph. Have you realized what a wonderful model this is, and what lots of fun you can have with this Meccano wonder? The best way for you to get acquainted with it, is to order the Meccanograph Manual. The price of this book is only 25 cents and it will be sent to you post paid on receipt of the money.

The Tanks.—Nothing in this war, not even the Zeppelins, has created so much interest as the Tanks. It is said that when the British Tommies saw them for the first time they could hardly fight for laughing. Like big elephants they advanced fearlessly to meet the enemy, crossed trenches and big holes, broke down barbed wire, knocked over houses and walls and climbed over the top of the ruins. A tank model will be illustrated in our next issue; it will be of great interest to every boy and all will want to build it.

A New Outfit.—Have you an Inventor's Outfit? No matter what Outfit you have, an Inventor's is the next to buy; it contains all the newest parts, the big 3" pulleys with collar and set screw, couplings, braced girders and parts that will help you to build new models and work out ideas never before thought of.

Meccano Engineers to the Front.—The boys are leaving for the battle front and among them many a Meccano boy, many a Meccano engineer. They have been busy bridge building at home with Meccano; they have learned much that will help them. Some have already written to us of their experiences, and some of them have undoubtedly gained promotion by reason of the knowledge gained by building with Meccano. Every boy should strive to win the degree of Meccano Junior Engineer. All you have to do is to build for six months and then write in to us and tell us what you have learned. You will get a button beautifully executed in oxydized silver to show your rank, and there is nothing to pay.

Our Price List.—In order that every boy may be sure of the proper price of Meccano we are again printing a price list of Meccano Outfits. This list cancels all previous prices, whether they were given in Manuals, leaflets or advertisements.

PRICE LIST

Meccano Outfits.		Accessories.	
No. 00 Outfit	\$1.00	No. 00A Access'y Outfit	\$0.50
" 0 "	1.50	" 0A "	1.50
" 1 "	3.00	" 1A "	3.00
" 1x "	4.50	" 2A "	3.00
" 2 "	6.00	" 3A "	6.00
" 2x "	7.50	" 4A "	5.00
" 3 "	9.00	" 5A "	20.00
" 3x "	12.00	Inventors' "	3.00
" 4 "	15.00	" E1 Electric Motor	2.00
" 5 "	20.00	" E2 "	4.00
" 5x "	25.00	Transformer	2.00
" 6 "	40.00		



Meccano Progress

Since our last issue Meccano has moved into a new home and our address is now:

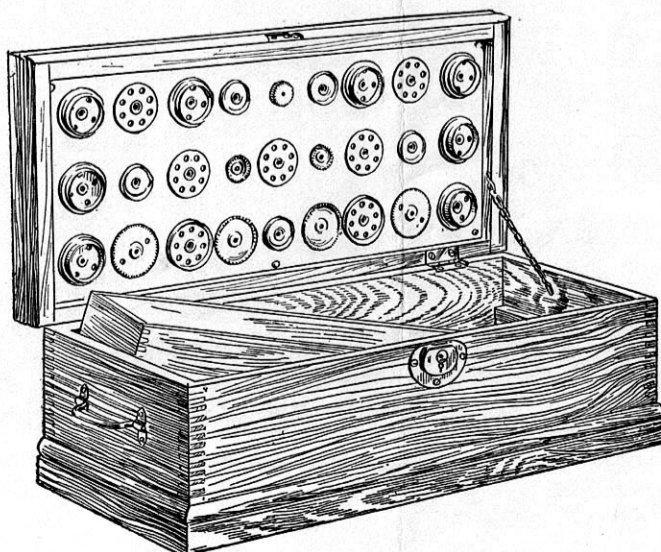
Building 10, Bush Terminal, Brooklyn, N. Y.

In our new premises we have plenty of room to carry on our big business, and to maintain the healthy rate of growth which has characterized Meccano ever since its invention.

READY AT LAST The Meccano Builder's Cabinet

Meccano parts are too good to leave about; lock them up in this beautiful oak cabinet. The inside of the lid is fitted with a metal plate to take Meccano gears and wheels as shown in the illustration. Fitted with lock and key, complete \$5.00.

The picture shows the cabinet after you have put your gears and wheels in place.



The International Society of Meccano Engineers

Degree day has come and gone and those who by their good work earned the degree of Meccano Junior Engineer are proudly wearing the sign of their rank. If there are any members who have not yet got their degree button they will find full particulars as to how to proceed in the March-April copy of the Meccano Engineer, which may be had post free for 2 cents.

On and after September 1st all those who have been registered as members of the Meccano Society for not less than twelve months and have been building with their Meccano all the time will be entitled to proceed to the Senior degree. It will be necessary for each candidate to write a letter giving,

First, full name and address,

Secondly, date on which they have obtained their Junior degree and

Thirdly, their qualification for admission to the higher rank.

In regard to the latter they must tell us what they know about the scientific value of Meccano, how different kinds of girders are built, and recite the Meccano standard details. The standard details are found at the end of the Manual, and the scientific value of Meccano is treated of in the last issue of the Meccano Engineer.

The Senior Engineer degree is, of course, harder to get than the Junior, but it is a great honor to win this degree and so get ahead of the other fellows. Those who win the degree will receive a bar in oxydized silver which will be worn above the Engineer button; the bar will bear the word "Senior".

Be sure to write clearly and use only one side of the paper. All applications should be addressed to

THE BOARD OF EXAMINERS
International Society of Meccano Engineers,
Building 10, Bush Terminal,
Brooklyn, N. Y.

Our Special War Number

Make sure of your copy now

Don't miss the next issue of the Meccano Engineer; it will be an especially interesting edition and every boy will want to read it. The Meccano Engineer will next appear in November and will be a regular war number and contain lots of news and pictures from the front. To make sure of getting the paper sent to you regularly you must send six cents in stamps for the year's subscription. If a receipt is required for money send also stamped addressed post card. You have now had sufficient copies sent you free to show you how good the paper is, so it is now up to you to make sure of getting it.

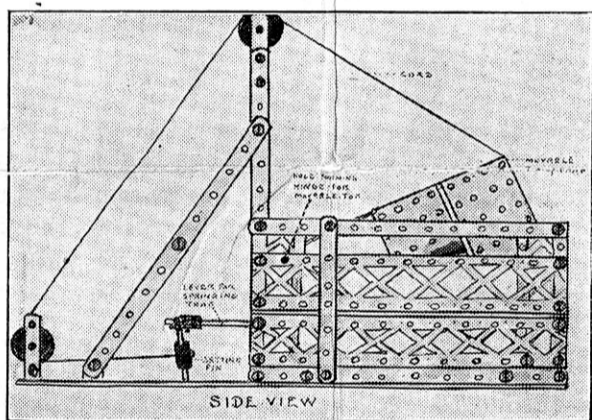
Subscribe today! Send your six cents in stamps to: Subscription Dept. Meccano Engineer, Building 10, Bush Terminal, Brooklyn, N. Y.

How Meccano Made a Zoo

By Arthur Andrews Holbrook,
Milwaukee, Wisconsin.

I don't believe that any boy in the world had more fun with his Meccano last summer than I had. Our home is in Milwaukee but every summer we go up north in the pine forests near Lake Superior where we have a lodge on the Brule River. It is the country where Hiawatha lived so we named our lodge Gitche Gumee which is the Chippewa for Lake Superior.

One rainy morning I was making a bridge with my Meccano when I happened to look out on the porch and saw something that gave me a new idea. It was a red squirrel sitting up straight with his fine bushy tail curled over his back and his white vest of fur, his bright round eyes and short pointed ears and his cute little fore-paws holding a nut that he had found while he took quick, sharp nibbles, stopping every now and then to turn a suspicious glance at me in the window. "Whoop!" I called out, "I've got an idea." Mr. Squirrel dropped his nut and ran away, my mother nearly dropped her sewing and my father said that from the noise I had made he guessed my idea was to go and fight the Mexicans. "No, Sir," I said, "I'm going to make a trap out of my Meccano and catch that squirrel."



We have an Indian, Bob, for a guide at the lodge and I had seen a sort of a figure 4 trap out in Bob's shack. I went out to look it up and although it was pretty badly broken up I got some ideas from it and came back to work them out with my Meccano. I had it all done that afternoon and you can see from the photographs and drawings what it is like. When it was all ready and had sprung well several times by poking the bait pan with twigs I asked Bob what would be the best bait to use. He said that squirrels liked cheese better than anything he knew because every time he had any cheese in his shack they always came in and stole it from him. So I baited the trap with cheese and left it on the porch all night.

My brother, my father and I always take a dip in the river before breakfast and next morning when we came down from our sleeping porch, sure enough there was the trap already sprung and we were confident that Mr. Squirrel was ours. I picked up the trap and carried it into the screened porch where we thought that we could more safely take a good peep at the squirrel. Some way or other it didn't look just like a squirrel through the holes of the strips and I can remember now that my father was sort of chuckling when I put the trap on the table. Then I got a good look and what do you think—there was a little mouse about two inches long. Well, we had a good laugh about that and my father said that we would try some nuts for bait next time.

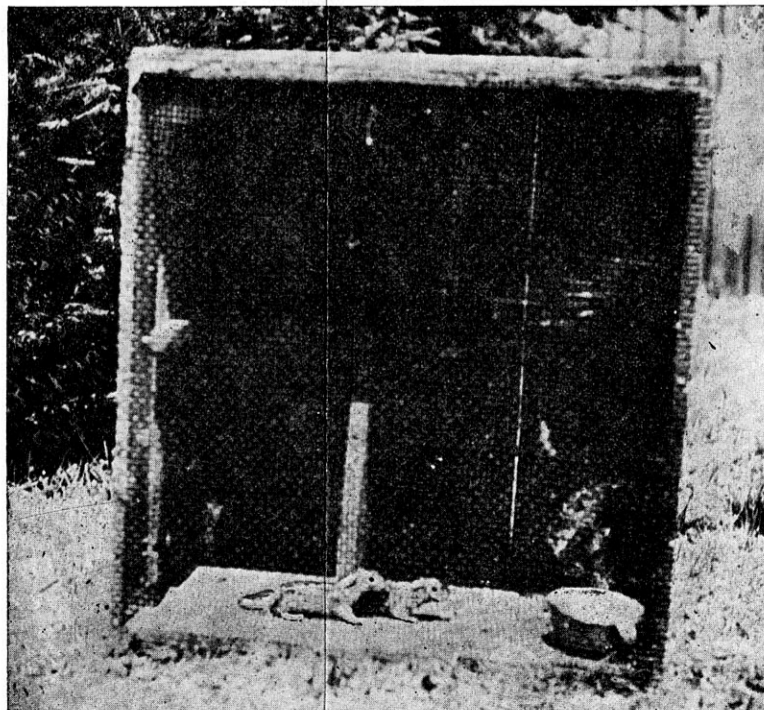
So next day we baited the trap with cracked nuts and next morning when we came down we were terribly disappointed to find that the nuts had been very carefully taken out of the bait pan and the trap was not sprung. I was bound now that I would fix that smart young squirrel so I got some small rubber bands and put them around the bait pan so as to hold the nuts firm in the pan. Next morning was a dark rainy one and my brother and I overslept so that our father went down to have his swim alone. When he saw the trap on the front porch it was sprung and he could plainly see the squirrel through the holes of the strips. He decided to leave it, have his bath and then call us down to see it, but when he got back to the house and had called out for us to come down and see the squirrel he went up to examine the trap again and once again that crafty squirrel had fooled us and in some way had pushed up the top of the strip and had escaped.

We were now thoroughly aroused and the whole family including Bob were offering advice about catching the squirrel. At first I thought I would enlarge the trap by inserting a strip or two but finally decided to put a flat weight on the top piece of the trap so that the squirrel could not push it up. With this arrangement we again set the trap but evidently that squirrel had learned his lesson and for several days the trap was not sprung.



SETTING THE TRAP IN THE FOREST.

Then Bob suggested that we take the trap out in the woods where he knew there were a good many squirrels and said he would guarantee that we would catch one. I think the trap had been set in the woods not more than two hours when my brother came running to the lodge swinging his cap and yelling, "We got a squirrel, we got a squirrel." And sure enough there he was safe and sound this time. So we took him in the screen porch and carefully opened the trap and poked the little animal until he ran into the cage door. Slap, bang went the door of the cage and then we looked through the wire netting. Then we had another good laugh. "Well, if that's a squirrel," said my father, "he certainly has scraped all the hair off his tail." "Sure enough", I said, "it isn't a squirrel, it's a chipmunk." But my grandfather who was there said "you take another look and see if that is



THE LITTLE CAPTIVE GOPHERS.

a chipmunk." Then I saw that it didn't have the red fur with the smooth black and white stripes and rather fluffy tail of the chipmunk but that it had many stripes of black and white dots and a tail more like a rat and I knew right away that it was a gopher. So we got water and corn for the gopher in the cage and set the trap again to see what luck would bring us.

Next morning there was another gopher. That afternoon there was another gopher; and when we finally had four of them I said to Bob that it was pretty near time for us to go back home and yet we hadn't caught a squirrel. He and I consulted as to the most likely place to catch a squirrel and we decided on the woodshed up near the eaves—and would you believe it that next morning we caught a gopher way up there.

I knew the farmers in Minnesota have regular crusades to kill the gophers that bother them so much, and I had no idea gophers could be such a nuisance. We didn't catch another squirrel or even a chipmunk but we could easily have caged a dozen gophers. Next year I am going to make a little larger trap and weight the top piece well and then if I begin a little earlier in the season I am sure that I can catch any number of squirrels, chipmunks and gophers.

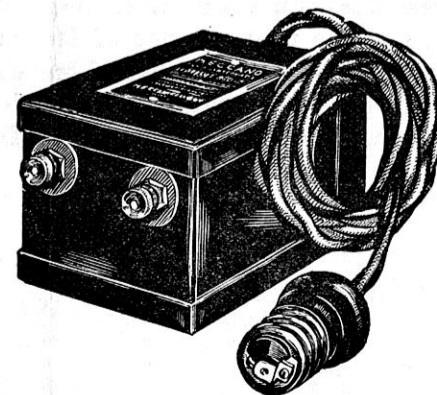
When we let the gophers all out of the cage, just before we left the lodge last summer, I tried to think of some way I could brand them to tell if we caught the same ones next year but we finally had to let them go. I hope that many of the Meccano boys who are near the country places will try making a trap like mine because it is great sport to have the excitement of catching them and a great deal of fun to watch them and see their habits after they are caught.

The Story of a Meccano Strip

By Cyril Eve.

"I was a piece of iron ore mixed with dirt. On the mountains of Montana I lived. One day I felt the earth around me loosen. I was being lifted into the air, and (as I found out later) it was a steam shovel that lifted me. I was dumped into a coal car and left there. Soon the car was full and I afterwards learned that there were about forty tons in my car. I was wondering what would happen to me next when, "Bang!" I was suddenly shaken up! We were being carried along rapidly, up hill and down, over plain and through valley. Soon we came to the stamp mill. We were broken up into little pieces, then we were carried to a large furnace and melted. We were then mixed with carbon and afterwards cooled by a strong current of air. We were next taken to the Meccano factory, stamped into strips, and holes punched into us one-half inch apart, packed in neat boxes and sent away. I happened to be sent to a boy named Cyril Clayton Eve, and now I am built into a railroad bridge."

Meccano Transformer



Makes the ordinary house lighting system the boy's own power house. Does away with all the expense and troubles of dry cells. Price \$2.00.

RESULT OF THE Grand Meccano Competition.

A PERSONAL MESSAGE TO EACH COMPETITOR.

I am sorry I have had to keep you boys waiting so long for the results of the big Meccano Competition this year, but I am quite sure that you will understand the great difficulties which we have had to contend with. The entries from all over the world were much more numerous than in any previous competition, and our staff of model-makers have had to work night and day building up the selected ones for the judges. Anyhow we have been able to get out the list at last, and the prizes have all been despatched to the fortunate winners.

All-round excellence has again been the outstanding feature of the entries. Some very fine models indeed have been sent in.

I hope that all competitors in the last competition, both winners and losers, will have another try in the new Grand Competition which is now running. Prizes to the value of over 1,000 dollars will be given, and any model showing merit or novelty in the opinion of the judges is sure of winning a prize.

The entries in the last competition, and the letters which I am daily receiving from Meccano boys, show me that the enthusiasm for the hobby is growing every year. Many boys of course look upon Meccano as just a wonderful toy, and write to me of the intense pleasure which they get from it, but a great and growing number of boys and men take their hobby very seriously. They realize that through it they are acquiring invaluable knowledge of mechanics and engineering, and that without it they would miss a most valuable help in their studies and in their work. To the serious Meccano student I would say that we have many plans for increasing the usefulness of Meccano parts, which will render it the finest aid to the study and practice of engineering which has ever been known. We are going to help Meccano boys, and we are going to get them to help each other, by means of a scheme which is now in preparation, which I hope shortly to announce.

One of the lessons which this great war has taught us is the value of technical education. I believe that in the work of better education which must follow the dawn of peace, Meccano will play an important part, and that before very long, it will be recognized as an indispensable aid to the rapid and thorough training of students of engineering.

Frank Hornby
Pres. Meccano Co., Inc.

LIST OF PRIZE WINNERS.

1st Cash Prize - - \$250.00

Divided between two competitors.

- E. C. HERBERT, 16, Harradon Rd., Aintree, Liverpool.....High-speed Ship Cooler
- E. F. BUSINGER, 3,666, Park Av., Bronx, New York, U.S.A.....Embroidery Machine

2nd and 3rd Cash Prizes - - \$175.00

Divided amongst four competitors.

- J. CLARK, 60, Regent St., Greenock.....Lowering Apparatus for Lifeboats
- A. W. WELDEN, 71, Marlow Road, Anerley, London, S.E.....Babcock & Wilcox Boiler
- A. TOUZET, 6, Rue des Jardins, St. Etienne (Loire).....Meccano Puits
- H. VOLKMAN, 111, South 9th St., Brooklyn, New York, U.S.A.....Ore-handling Machine

6 No. 5 MECCANO OUTFITS

- A. PUX, 54, Rue Madame, Paris.....Ice Skates
- W. SYMM, 8, Collingwood Ter., Dunston-on-Tyne, nr. Gateshead
250-ton Double Block Girder Crane
- BERT GARDNER, Mount Carmel, Utah, U.S.A.....Quarry Drill
- CECIL KEMPSTER, 66, Ellesmere Rd., Gt. Berkhamsted.....Multiple Punching Press
- A. A. HOLBROOK, 612, Kenwood Boulevard, Milwaukee, U.S.A.....Wild Animal Trap
- J. RICHARD, 10, Rue des Bas-Sablons, St. Servan.....Pont Roulant St. Malo

10 No. 4 MECCANO OUTFITS

- JOHN McGEE, Pearl St., Council Bluffs, Iowa, U.S.A.....Adding Machine
- M. TOUPNOT, 5, Rue de Laborde, Paris.....Improved Meccanograph
- FRED WOLFENDEN, 63, Barndale Rd., Mossley Hill, Liverpool.....Breast Drill
- B. GIPSON, 17, Queen's Gardens, Herne Bay, Kent.....Tank
Machine à Rayer les Canons
- E. LANG, 102, Barton Ter. W., North Adelaide, Australia.....Titan Crane
- J. D. BEAN, 100, E. State St., Doylestown, Pa., U.S.A.....Campbell Webb Printing Press
- R. NEWTON, 65, Selwyn St., Leigh, Lancashire.....Spinning Mule
- P. OZANNE, Pont l'Éveque, Calvados.....Typewriter
- GEORGE JOHNSTON, 31, Woolmarket, Berwick-on-Tweed.....Drilling Machine

18 No. 2 MECCANO STORAGE CABINETS

- W. A. M. BROWN, 9, Brookfield Ter., Meanwood, Leeds.....Leeds Town Hall
- GORDON BANKS, 462, Helmshore Rd., Helmshore, Manchester.....Dobby and Loom
- R. F. FIDLER, 16, Sydney Rd., W. Ealing, London.....Heliograph
- W. C. CUNNINGTON, Helpston Heath, Peterboro'.....Tractor and Drag
- A. B. GROSVENOR, 8, Spring Road, Brightlingsea, Essex.....Improved Meccanograph
- W. KENDRICK, 7, Sugar Lane, Manchester.....Steam Navy
- J. E. YATES, 26, Market St., New Mills, Stockport.....Silhouetting Machine
- J. TAYLOR, 10, Colenso Rd., Holbeck, Leeds.....Bale Lifter
- C. D. GADD, 40, Bamford Rd., Didsbury, Manchester.....Speedometer
- C. J. PARR, 45, Hazelbank Rd., Catford, London.....Submarine
- E. C. G. HANDSCOMB, 29, Fairlawn Mansions, New Cross, London, S.E.
Well-boring Rig
- S. F. MARTIN, 18, Avon Rd., Upper Walthamstow, London, N.E.
Cinematograph Mechanism
- S. S. HALL, "Glendon," College Rd., Epsom, Surrey.....Iron-ore Transporter
- ROBERT GRAY, "Tharfawaddy," West Melton, Rotherham.....Slide Valve Marine Engine
- E. W. LAMB, 102, Lancaster Rd., East Ham, London, E.....American Railway Carriage
- F. J. TICKNER, 15, Highcroft Gardens, Golders Green, London, N.W.
Reaping and Binding Machine
- W. E. MATHER, 20, Ormidale Terrace, Edinburgh.....Reversing and Reducing Gearbox
- CAPT. L. G. HUMPHREYS, A.S.C., British Prisoner of War, Offiziergefangenenlager,
Friedberg-in-Hessen, Germany.....5-Cylinder Compression Engine

18 No. 1 MECCANO STORAGE CABINETS

- G. S. REID, 54, Marchmont Rd., Edinburgh.....Egg Beater
- W. T. & N. HENDRY, Hertford Hse., Sanderson Rd., Newcastle-on-Tyne.....Designograph
- P. EATON, "Haslemere," Witney, Oxon.....Road Sweeper
- J. BUTTERWITH, 42, Lorne St., Fairfield, Liverpool.....Street Lamp
- A. E. MCGECHAN, 7, Hill Rd., Barrow-in-Furness.....Knife-grinding Machine
- J. T. G. TORLESSE, Little Setley, Brockenhurst, Hants.....Spring Balance
- P. CUDWORTH, "High Clere," George St., Cambridge.....Binder
- WM. PARKIN, 55, London Rd., Reigate, Surrey.....Dancing Sailors

4th Cash Prize - - \$37.50

- N. W. LEE, "Ardennes," Staindrop Rd., Darlington.....Machine Drill

5th Cash Prize - - \$25.00

- J. & C. BELL, 5, Maitland St., Newbiggin-by-the-Sea.....Freestone Planing Machine

6th Cash Prize - - \$12.50

- E. BOBARD, Avenue de la Gare 8 bis, Beaune.....Tour le Moderne

- E. H. GOODYEAR, 7, Bright St., Eastbourne, Darlington
Guillotine Paper-cutting Machine
- A. A. B. GARDNER, 72, Vernon Rd., Leytonstone, Essex.....Ship's Telegraph
- WM. BELL, 66, Needham Rd., Liverpool.....3-speed Gearbox
- F. E. KERR, 15, Tempest Rd., Beeston, Leeds.....Grinding Mill
- O. H. QUIBELL, Shalem Lodge, Newark-on-Trent.....Revolving Bookcase
- A. A. BLASDALE, 93, Holyhead Rd., Coventry.....Seatant and Theodolite
- H. J. ARCHER, 17, Conduit St., Belfast.....Street Sweeper
- HARRY FLETCHER, 1, Mount Villas, Chesterfield Rd., Mansfield.....Dynamobile
- D. C. RAMSDEN, 257, Hyde Park Rd., Leeds.....Auto Steering Car
- F. YATES, 26, Market St., New Mills, Stockport.....Cantilever Bridge

20 No. 3 MECCANO OUTFITS

- LEON DALIBOT, 53, Rue de la Palestine, Rennes.....Transbordeur
- E. A. BLENCH, 74, Squires Lane, Finchley, London, N.....Speedometer
- B. BREWSTER, 942, High St., Dedham, Mass., U.S.A.....Dock Crane
- P. SALATIER, 49, Cours de la Liberté, Lyon.....Grimpeur Automatique
- M. BRUNET, 16, Rue St. Perpétue, Nîmes.....Roue Cremaillère
- ROY FURSE, Roseberry Av., Preston, Victoria, Australia.....Foot Road Bridge
- J. HAMILTON, Canadian Villa, Knock, Belfast.....Orrery
- E. W. TOMLINSON, Cherokee, Iowa, U.S.A.....Quebec Bridge
- H. L. HYAN, 620, West 149th St., New York, U.S.A.....Military Land Glider
- G. E. SPOONER, 30, Toft Wood Rd., Crookes, Sheffield.....Electric Tramway
- V. G. MELLOR, 46, St. George's Rd., Winsford, Cheshire.....Punching Machine
- W. W. HONNOR, Alpha Rd., Prospect, Adelaide, Australia.....Poultry Green Field Cutter
- M. DERAMAUX, 19, Rue Fontaine, Paris, 9me.....Presse d'Emballage
- P. CHENEAU, Villas Médicis, La Bourboule, Puy de Dôme.....Jeu de Petits Chevaux
- HENRI LACROIX, Rue de l'Hotel de Ville, Mantua.....Jeu de Course
- J. H. LEE, 176, Lynwood Av., Providence, Rhode Island, U.S.A.....Vertical Fire Engine
- A. V. DER LEITH, 256, St. Palisade Av., Riverdale, New York, U.S.A.
Electric Locomotive Crane
- A. S. HOOK, Tryon Rd., Lindfield, Sydney, Australia.....Jacquard Loom
- J. M. NUNN, 4,001, Lincoln Av., St. Louis, Mo., U.S.A.....Ditching Machine
- J. VERLINDEN, 27, Rue Germain, Lyon.....Pèse Lettre

25 No. 2 MECCANO OUTFITS

- ARTHUR CLAYTON, 84, Edinburgh Rd., Walthamstow, London, E.
Automatic Match Machine
- B. J. LYNCH, 1,211, Kemble St., Utica, New York.....Baggage Truck
- A. W. WOODMAN, 2,223 Capitol Av., Omaha, U.S.A.....Discophone
- P. GASCUEL, 54, Avenue de St. Cloud, Versailles.....L'Avocat Automate
- R. GOVAERT, 8, St. Paul's Ter., Norton, Malton, Yorks.....Beer Waggon
- C. WHITFIELD, 22, Railway Ter., Usworth Colliery, Co. Durham.....Potato Reaper
- L. G. G. CHARLESWORTH, 1, Ellesmere Rd., Saltley, Birmingham.....Drafting Machine
- EUGENE H. TOWER, 336 Broadway, N.Y.C., U.S.A.....Tractor
- G. M. ABBOTT, 171, West 79th Street, New York, U.S.A.....Niagara Arch Bridge
- J. WASEM, Côte 106, Neuchâtel, Suisse.....Horloge
- M. LAMBERT DU CHEMAYS, 15, Rue Premartine, Le Mans.....Blason
- A. P. WITTEMORE, Charleston, W. Virginia, U.S.A.....Automatic Hammer
- F. SMITH, Elmwood Heights, Pittsfield, Mass., U.S.A.....Meccano House
- J. K. HARE, "Westholt," Henlow, nr. Biggleswade, Beds.....Metronome
- L. H. BARKER, 8, Welbeck Rd., East Ham, London, E.....Burglar Alarm
- A. APPERT, Villa Pomponne, Montauban, Tarn-et-Garonne.....Tour Elliptique
- R. S. CRAMPTON, Evanston, Illinois, U.S.A.....Meccano Racer
- G. DUPUIS, 114, Osgoode, Ottawa, Ont., Canada.....Motor Cycle and Side Car
- W. HIBBERT, 204, S. Brand Boulevard, Tropic, Cal., U.S.A.....Paper Perforator
- E. RAVILIOUS, "Aylwin," 46, Charleston Rd., Eastbourne.....Pastry Cutter

LIST OF PRIZE WINNERS—Continued.

J. CUTHBERT, 20, Queen Anne St., Newcastle-on-Tyne.....*Pantograph*
 L. BRUNET, 16, Rue St. Perpétué, Nîmes.....*Ombrelle Plante*
 J. J. PIERSE, Bishops Court, Lixnaw, Co. Kerry.....*Mechanical Spinning Top*
 F. NOLL, 4,222, Broadway, Indianapolis, Ind., U.S.A.....*Trench Machine*
 F. A. VOOS, 90, N. 11th St., Newark, New Jersey.....*Improvement in Meccanograph*
 E. WHITE, 1,126, S. 1st St. West, Cedar Rapids, Iowa, U.S.A.....*Concrete Mixer*

26 No. 1 MECCANO OUTFITS

E. BULLOUGH, 391, Manchester Rd., Westoughton, Bolton.....*Marking Machine for Lawns*
 G. S. REID, 54, Marchmont Rd., Edinburgh.....*Mouse Trap*
 L. ROSSIGNOL, 8, Rue Lateral Raymond, Toulouse.....*Gymnastique a la Barre Fixe*
 M. PROLIUM, Rue Regale, No. 3, Nîmes.....*Fer à Repasser*
 D. V. DHUMATKAR, c/o Dr. P. R. Pilgaokar, 10th Sadashine St., Kandewady, Bombay, India.....*Bullock Cart*
 E. LANG, 102, Barton Ter. W., North Adelaide, S. Australia.....*Desk Pencil Stand*
 P. ARNOLD, 31, Quincy Place, N.W., Washington, D.C.....*Compass*
 L. WOODWORTH, F.D.L., Box 385, Ariola, Ill.....*Differential Chain Hoist*
 J. RUMFITT, 20, Whalley Old Rd., Blackburn.....*Palanquin*
 R. PARRIS, 14, Silver St., Trowbridge.....*Sword and Sheath*
 G. DONSETT, 14, Ave Henri Derain, Vernouillet.....*Porte Couteau de Table*
 R. PICARD, 6, Rue Sheurer-Kestnax, 6, Poitiers.....*Chasse Noyau*
 THEO. HORNDEN, 20, Jefferson St., West Carthage, New York, U.S.A.....*Fanning Mill*
 H. A. CHURCHILL, 103, Station Rd., Market Drayton, Salop.....*Knife Grinding Machine*
 C. TURNER, 302, W. Burlington St., Fairfield, Iowa, U.S.A.....*Freight Car*
 J. GOIX, 33, Avenue de Saxe, Paris.....*Pupitre à Chant*
 A. SELMERSHEIM, 70, Bd. Garibaldi, Paris.....*Bamboulas*
 E. C. DOYLE, 1,715, State St., Little Rock, Ark., U.S.A.....*Cylinder Press*
 F. CARLLE, Lamoni, Iowa, U.S.A.....*Traction Engine*
 E. D. GILL, 26, Woodbines Av., Kingston, Surrey.....*"The Magic Sector Plates"*
 H. C. JOHNSON, 99, Belgrave Rd., Aigburth, Liverpool.....*Clothes Horse*

W. ESSLINGER, 37, Cours d'Herbouville, Lyon.....*Famille Meccano*
 R. RICAUT, 75, Bd. Carnot, Le Fesinet.....*Machine Bouche Bouteilles*
 H. E. GIBSON, 3rd University Cottage, Berkeley, Cal., U.S.A.....*Concrete Paver*
 P. LLOYD, c/o Mrs. Heywood, Crawford Hotel, Crawford St., Rochdale.....*Adding and Subtracting Machine*
 C. TUSOLI, 13, Rue Ste. Hélène, Lyon.....*Lampe à Arc*

20 No. 0 MECCANO OUTFITS

R. SIEMENS, 70, West 128th St., New York, U.S.A.....*Egg Beater*
 K. W. TOWLE, c/o Newport & Providence R. Co., Newport, Rhode Island, U.S.A.....*Electric Locomotive and Power Station*
 A. JEANROT, 23, Rue du Prinal, Bourges.....*Tourniquet pour Cartes Postales*
 H. B. PHILPOTT, 2, Westfield Buildings, Wakefield Rd., Morley.....*Breakdown Crane*
 A. J. LUTHER, The Knoll, Warwick Rd., Acocks Green, Birmingham.....*Automatic Weighing Machine*
 A. G. BLASBY, 11, Northcote Rd., Norwich.....*Revolving Tower*
 J. M. DOUGHTY, N. Main St., Greeneville, Tenn., U.S.A.....*Machine Shop*
 C. RACIOTPI, 4, Sylvan Ter., New York.....*Italian Flour Mill*
 W. E. WRIGHT, 23, Checketts Rd., Belgrave, Leicester.....*Jig Saw*
 R. VOILLANNE, Villa Peyronnel, La Bourboule, Puy de Dôme.....*Diplodocus*
 E. SMEDLEY, 20, Vergette St., Peterborough.....*Hard Stone Saw Frame*
 H. W. BURNETT, 16, Graig View, Ynysddu, Mon.....*Potato Harvesting Machine*
 B. CORKLIN, 3,748, Wilton Av., Chicago, Ill., U.S.A.....*Telegraph Instruments*
 R. VON DER LIPPE, Sparta, Ill., U.S.A.....*Ditch Filler*
 R. CHAPUT, 22, Alpine, Dubuque, Iowa, U.S.A.....*Wood Sawing Machine*
 C. L. BIRD, St. Fagan's Rectory, Cardiff.....*Mechanical Hacksaw*
 E. IREMONGER, Plainfield, New Jersey, U.S.A.....*Guillotine for Cattle*
 R. PRIVE, 3, Rue de Luynes, Paris.....*Croix de Guerre*
 D. GOLDSMITH, 209½, W. Seminary St., Danville, Ill., U.S.A.....*Destroyer*
 J. N. MCKAY, Caledonia, New York, U.S.A.....*Foot Power Wood Turning Lathe*

HONORARY DEGREE MECCANO JUNIOR ENGINEER

RICHARD KORN, 320 Central Park West.....*Bleriot Monoplane*
 FRED LUHMAN, 1107 Tyler St., St. Louis, Mo.....*Derrick and Mining Dredge*
 PHILIP M. STORY, Randleman, N.C.....*Starching Machine*

BOYS! A GRAND NEW \$1000.00 PRIZE CONTEST

has started. Get your Entry Form either from your dealer or from us. Any boy can compete, and remember that more prizes are given for good small models than for big ones. There are no entrance fees or restrictions of any kind, so get to work at once, boys, and send in photos or drawings of that new model which you have taken so much pleasure in inventing, and building, and playing with. Closing date March 1st, 1918.

MECCANO



Our Letter Box

We invite our young friends to write us on subjects of interest to Meccano Builders. Such letters, or parts of letters, as the editor considers to be of general interest will be published from time to time.

Dear Mr. Meccanoman:

I thank you very, very much for the beautiful blue enamel button and the letter stating that I have been admitted to rank in the International Brotherhood of Meccano Engineers, and would appreciate it if you could please tell me when your next degree day for the Junior Engineers would be.

I would also like to tell you that I have four friends that would like to get a Meccano set, the names of which I will send in a few days. I just finished a church which I made with my Meccano for my Dad's store, and after the mailman came and brought me the letter with the beautiful button in it I just had to sit down and write back to let you know that I received it. After I showed the button to my friends, whose names you will receive in a few days, they also wanted one. I want to thank you once more for the beautiful button I received, and hoping you will receive this letter, I remain,

Yours truly,
 Martin A. Walker.

"I am well pleased with my Meccano Outfit and Motor. No other construction toy can come up to the celebrated Meccano for my purpose."

A Meccano Boy,
 Carl Scheider.

"Excuse writing as I am a cripple. I wanted to let you know the fun I have with my Meccano. I had it in hospital and it sure passed the time quick. I had two similar outfits, but Meccano for mine."

Herbert W. Losie.

Our Letter Box (continued).

It is with the greatest pleasure that I can recommend the "Meccano". I started out with a No. 0 set now I have quite an Outfit and am going to add more.

Myron W. Baker.

I am a Meccano boy and have been one for three years. I have enjoyed myself very much with Meccano. I took my set up to a boy's house, who had been run over with an automobile and built a crane for him. He was so fond of it that he told his mother to get him one. So he has one now (Meccano). I am going to High School and am learning to be a Mechanical Engineer, therefore my Meccano helps me. I have tried in two Prize Contests, but I have not won anything, and now I have about three more models ready again.

John Clement.

Let me congratulate you on the wonderful improvement in Meccano. In 1913 when I got my first set I thought it wonderful. I built the models No. 1 could make and then built some of my own ideas. But about five months ago I discovered in a Magazine a coupon for which I could get a Prize Model Book. In it I saw the advertisement of the new Manual. I sent for it, it was so wonderful that I bought Nos. 1A, 2A, 3A and Inventors' Set. I now have quite a nice Meccano. I have \$20.00 worth in extra parts and have invented many models, such as a riveting machine, in which I push down a button and a hammer comes down automatically and knocks rivets in a piece of steel.

David Bamberg.

Meccano Supremacy

It makes an unlimited number of models possible—better models—such as no other toy will build.

Has parts with the finish and accuracy of real machinery.

It is the only system using real brass gears and bushings.

Meccano is easiest to understand and easiest to use.

Complete with powerful Motors.



The Big Value 1X Outfit.—The Outfit illustrated above is the big 1X Outfit, contains all the parts of a No. 1 Outfit and in addition a Meccano No. 1 Electric Motor, which will enable you to make all your models work. This is the Outfit to recommend to your boy friends for a start.

Do not fail!
 to order the next issue of the Meccano Engineer!

It will be full of live interest for every Meccano boy.

Published Periodically by Meccano Company, Inc.
 FRANK HORNBY, President
 J. P. PORTEUS, Vice-President and Editor
 FRANK A. ATZERT, Secretary
 Printed by La Pidus Printing Co., New York