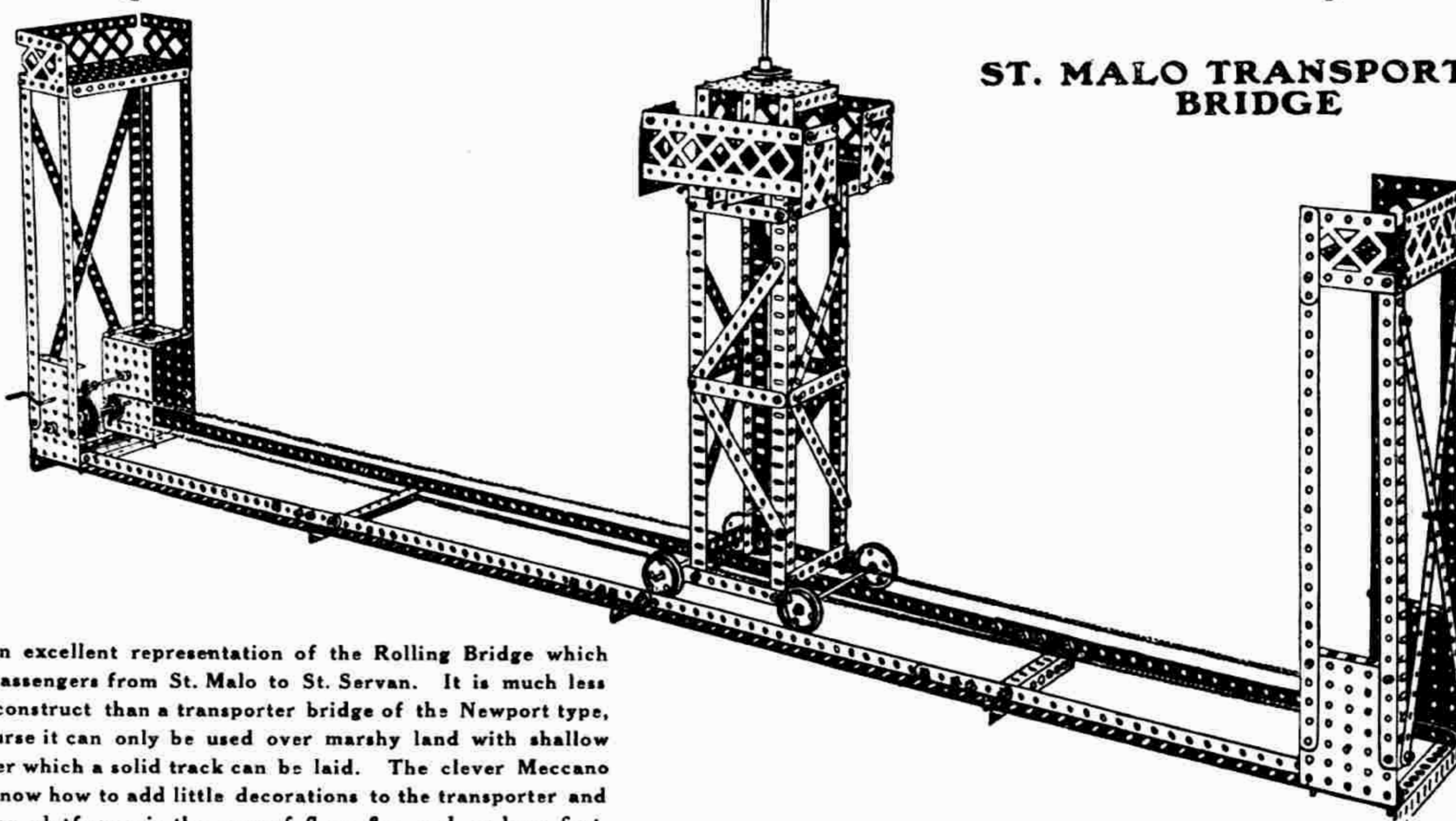


# MECCANO MAGAZINE

TO HELP MECCANO BOYS TO HAVE MORE FUN THAN OTHER BOYS



ST. MALO TRANSPORTER  
BRIDGE

This is an excellent representation of the Rolling Bridge which conveys passengers from St. Malo to St. Servan. It is much less costly to construct than a transporter bridge of the Newport type, but of course it can only be used over marshy land with shallow water, over which a solid track can be laid. The clever Meccano boy will know how to add little decorations to the transporter and the landing platforms, in the way of flags, &c., and make a first-class toy of this fine model.

## EDITORIAL.

### Full Steam Ahead.

Since the Armistice our factory has been working night and day on Meccano, and many thousands of new and old Meccano boys have been made happy by being able to obtain their outfits. It has been a hard struggle to meet the remarkable demands which you boys have made on us, but by the time this number of the *M. M.* reaches you, our output will be so big that there need be no further waiting for any of you. Full steam ahead is our motto from now on.

### The New £200 Prize Contest.

We are starting our Grand Meccano contest again, and you will find full particulars on the next page. Every Meccano boy should enter; there are hundreds of fine prizes, and any boy with a good idea for a new model should have no difficulty in gaining one of them. We want this to be the biggest and most successful contest we have ever run.

### Meccano Clubs.

Judging from the enormous number of entries in our Essay Competition on

"How I would run a Meccano Club," the interest in this movement is very great indeed. Meccano boys evidently feel that they are members of a great world-wide Brotherhood, and that some movement should be started to gather all their ideas and work together for the increased happiness and welfare of all clean-minded and intelligent boys in this country. We shall have more to say on this matter in our next issue.

### New Meccano Parts and Clockwork Motors.

We are working hard to get the new Meccano parts ready, and we shall be able to let you have these very soon now. The necessary tools take a long time to make, as they have to be made with very great accuracy; but we shall soon be able to let you have all you need. We have also resumed work on the No. 1 Meccano Clockwork Motor, and before the winter months come on we shall be turning them out in good quantities.

## Meccano Essay Competition

### "How I would Run a Meccano Club."

The response to this competition has been overwhelming and we have been unable to make the awards in time for this issue of the *Meccano Magazine*. All the entries are being very carefully considered, and in our next issue we shall publish a summary of the opinions of our readers as to how a Meccano Club should be formed. In the meantime any boy who has special views which he would like to submit to us should write without delay, as we are anxious that the Meccano Club idea should be a huge success.

We have received a great deal of correspondence from secretaries of Meccano Clubs in various towns, and we are greatly impressed with the enthusiasm with which many of these are run. We would single out for special mention Mr. Stuart H. Wilson, president of the Holy Trinity Meccano Club, with head-quarters at 29, Thornhill Road, Barnsbury, London, who runs his Club in a most successful manner, and who writes us excellent letters when reporting progress, which we should very much like to publish. We shall certainly tell you more of his doings in future numbers.

The Meccano Club in Glasgow, whose president is Mr. A. W. A. Dick-Cleland, has its own private Club Magazine, with a number of very capable contributors. We have also pleasure in commending the Methodist Magazine edited by Alfred Rolfe, an enthusiastic Meccano boy run for the benefit of Meccano boys.

*The Editor*



## The Life Story of Meccano

BY FRANK HORNBY.

(Continued.)

Meccano had now commenced to attract a good deal of attention throughout Great Britain. I received gratifying letters from boys and parents in every part of the country, and these gave me a great deal of pleasure and encouragement. In order to be quite sure that I was right in describing Meccano as Real Engineering for boys, I submitted outfits to the leading professors and engineering experts in England, and their replies furnished abundant proof that I was on safe and sure ground: that the principles of Meccano were true engineering principles, and that any boy who pursued the hobby enthusiastically and intelligently would inevitably acquire a sound knowledge of engineering and engineering terms.

You boys will have noticed that in all the Meccano manuals the instructions for building each model are couched in rather technical language; the reason for this is that correct engineering terms are used in every case. You may, with confidence, use any word or phrase employed in the Meccano Manual of Instructions in describing a model when talking with an engineer or a mechanic, and he will understand you perfectly.

I have no hesitation in saying that any boy who has built all the Meccano models in our Manual from the instructions which we provide for him, will be able to read intelligently and understand any work on engineering or a description of any engineering feat which he may come across. I attach the very greatest importance to this point of correct technical description of models, as it means so much to the serious boy whose future life will be associated with engineering matters.

As I said before, engineering professors began to take a good deal of notice of Meccano, and their recommendation and approval assisted me considerably. Things always move slowly in educational matters, and I knew that I could not hope that the authorities in this country would immediately install Meccano in all schools throughout the country for teaching mechanics and engineering, but occasionally I would hear of a more than usually progressive teacher discovering what a help Meccano was to him and using the parts for demonstrating mechanical movements to his students. Incidents of this kind proved a fine advertisement for the hobby amongst the boys, who invariably bought outfits for themselves to enjoy the fun of building at home.

Toy dealers began to find that the small quantities which they ordered quickly disappeared, with the result that their orders grew both in size and number.

I was adding more and more machinery all the time, and before I had been in my new premises two years another move was necessary. This time I thought I would do the thing thoroughly, and take premises which would be big enough for all time. Most of you boys will remember our address in West Derby Road, Liverpool, which, before I took it, was a motor car works. If you had seen the empty premises when I took them over you would have thought they were big enough to build railway engines in, and I can assure you that after all our machines and benches were installed there was enough uncovered floor space left over to give me a fright.

# A New Grand Meccano Prize Competition

## £200 in Prizes. 1st prize, £50 in cash

Now that conditions are getting a little nearer normal we are able to resume our big Contests, and we are again offering prizes to the value of £200 for the best Meccano models. The conditions will be the same as usual, and every boy who has a Meccano outfit has an equal chance of carrying away one of the big prizes.

Don't forget that more prizes are awarded to simple models than to complicated ones. Get your entry form without delay from your regular dealer, or from us if you have any trouble.

There are no entrance fees or restrictions of any kind. The entry form tells you just what to do. The competition closes on March 31st, 1920.

The closing date for the Colonies will be extended to May 31st, 1920.

ANY BOY CAN ENTER.

MORE THAN 200 PRIZES.

By this time I was manufacturing practically the whole of the Meccano parts in my own factory, and I began to introduce new machines and new methods of production, all with the object of improving the finish and efficiency of Meccano parts. Now that I had more space to work in I could do this with much greater rapidity, and so the result of these improvements became very apparent.

I abandoned the old tin containers, and Meccano outfits were now displayed in strong cartons with all the parts looking smart and orderly, in strong compartments. Up to now my strips had been made of tin with turn-over edges, but I gave this up altogether in favour of solid bright rolled steel strips heavily nickel-plated, a very great improvement indeed.

I also recognised that the key with which the wheels were fastened on the rods, whilst satisfactory in the main, was not sufficiently strong and rigid in a big working model, and I therefore introduced the set screw, and gradually utilised this same excellent principle for fastening all the wheels to the rods, so that gradually the key which I formerly manufactured by the million was superseded.

(To be continued.)

## "Can't be Bothered!"

By WEE GEORGIE WOOD.

"Oh! I can't be bothered!" How many times have you said that, I wonder? I am afraid I have said this myself more times than I care to admit, but I have always found that in the long run it pays to "never put off till tomorrow what you can do to-day." Perhaps you had intended to go in for a Meccano Competition, then said to yourself "Oh, I am never lucky in anything like that, and I can't be bothered to enter!" The result is that you remain like that for ever because that "put-it-off" feeling has become part of you—in other words, you have formed a bad habit.

Habits, both good and bad, are always hard to shake off, and therefore it is always worth while forming good habits. I had a bad habit of reading every night until the small hours of the morning, but when mother noticed the habit she set to work to cure me. She said, "Georgie, every time you have not finished reading by bedtime, I shall keep a shilling out of your pocket money." After it had cost me four shillings I gave up reading late, and learned to go to sleep.

I have just been reading a lot recently about a habit which most American boys have formed which is called "the Meccano habit," and from all I hear it is enabling American boys to "get there." It is fine to think that it is a purely British toy which is making such a hit over there, and that they are endorsing the view which we British boys have formed of Meccano. As a matter of fact, the Meccano habit is the best mental tonic I know for anyone who suffers from "Can't-be-bothereditis." Perhaps by this time you think that I am something between a doctor and a lecturer. The fact is, I started out to write a funny article, but as I went along I felt a desire coming over me to have a little more serious chat with my Meccano boy friends.

*Wee Georgie Wood*



A BUSY MECCANO CLUB.



## My Adventures in Meccanoland.

By "SPANNER."

(Continued.)

After breakfast the boys pretended to show us where we had gone wrong in fixing up the bridge, and made some adjustments; but I don't think they made any improvements, because it worked perfectly any way. We played with it all kinds of ways for hours, and I don't believe it has been taken to pieces yet, because the boys wrote me a little time back to say that the Transporter was still going strong.

That first model was a great success, and the rest of my visit was spent in building others. I got badly bitten with the engineering microbe, and since then I have been busy giving Meccano Outfits to my boy pals and getting them started on this great mind training, brain building game. I have seen so many listless and moody boys converted into bright, happy, and clever boys solely through this hobby that I feel I want to pass on the good news to other boys through the *Meccano Magazine*.

When you get your Outfit, don't bother with the parts just at first, but take a careful look through the Manual of Instructions which you will find at the top of the box. This is a masterpiece, and I often wonder how many thousands of hours it took to complete, and how many clever brains were responsible for its amazing contents. A celebrated judge has called it "the key to a wonderful box of treasures," and I don't know of a better way of describing it.

First read what is said of Meccano on pages 2 and 3. That will give you a new line on the hobby and show you what an important and manly game it is. On pages 4 and 5 you will find illustrations of all the parts which make the system, with the correct engineering name for each one. You will have to refer to these pages a great deal later, and you will soon know all the names off by heart.

Then turn to pages 6 and 7. Here you have shown very clearly 14 different kinds of trucks. Didn't know there were so many kinds, did you? They all have their uses, in warehouses, in engineering shops, and railroad platforms. Now make one or two of them up with the parts of your Outfit, and see what a neat, handy, smooth-running toy each one is.

At the side of each illustrated model you will notice that there has been printed a list of the parts which are required to make it. Before beginning to build, take out just the exact number of parts you will need, and lay the remainder of your Outfit on one side. When you have finished the model, you will require no more parts and will have none left over, thus proving that you have made the model correctly.

When you are through with trucks turn over to pages 8 and 9, making any of the models which interest you, not omitting No. 19, which is a capital toy showing you how goods can easily be conveyed long distances by means of an Endless Rope Railway. Two boys can get a lot of fun conveying goods backwards and forwards across a room. Then there is the Telfer Span (Model No. 23), which shows you how goods are sometimes carried over hilly and difficult country. This method has been very largely used by our Allies, the Italians, to convey troops and munitions over the Alps to fight the Austrians. This is a great play model.

Pages 10 and 14 are full of cranes. Now of all the toys I know, I think a crane appeals to boys the most, and surely these pages ought to satisfy any boy. They are just full of fine cranes which any boy can build. And, talking

of cranes, if any boy can master all those which are shown throughout this great book, he will be able to talk with the best engineer in the country on the subject. I have counted them, and there are 24 altogether, each one with a distinct purpose and use, and no two alike—Travelling, Swivelling, Overhead, Rotating, Locomotive, Radial, &c., &c.

It is most interesting and often most useful to know all about the building of cranes, and the advantages and peculiarities of various types. In fact, if you are going to be an engineer, as I know many of you are, you must know all about them, and the sooner you begin the better. The beauty of all these Meccano cranes is that they are mechanically correct, and they work and raise and lower big loads, just as the real cranes do.

On page 12 you are shown how you can build signals for your toy Railway system, fully working, on correct lines, and how to construct scales for weighing everything accurately. Then follow a whole lot of splendid models of aeroplanes, automobiles, wagons, and bridges, with an Anti-Aircraft Gun (No. 67) which you mustn't miss, and a Telegraphic Code Key (No. 75) excellent for practising and learning telegraphy with your friends, and a real Roulette Wheel (No. 77) with which you can have games.

(To be continued.)

## Result of the Meccano Essay Competition

### "What Meccano Has Done for Me"

We have had many hundreds of very excellent essays submitted in this competition, and it has been very difficult to make a selection. All the competitors have vied with each other in saying complimentary things about Meccano, and it has been a great pleasure to us to know that Meccano has relieved the sufferings of thousands of sick boys and girls, and given them occupation and enjoyment during days and nights which would otherwise have been tedious; how it has proved a friend to lonely boys in out-of-the-way places, and how it has united happy bands of boys in common bonds of interest and enjoyment; how, in countless instances, the hobby has helped and inspired boys who, through its fascinations, have decided to take up engineering and mechanics as a profession. We have been both surprised and gratified to receive so many entries from girls who pursue the Meccano hobby with pleasure and enjoyment, and a consolation prize of an Inventor's Outfit has been awarded to Miss Phyllis M. Alexander, whose essay will be read with keen interest by every Meccano boy and girl.

Outfits have been dispatched to the winning competitors, and we would like to give a word of special commendation to those competitors from whose essays we have printed extracts.

#### Prize Essay by Max F. Covill, 62, Rodwell Avenue, Weymouth, Dorset.



Master Covill attended the Convent High School for some years, and at the age of 13 he entered the Weymouth Engineering and Technical School, stimulated by the knowledge and inspiration which he had derived from building Meccano models. He is now 14 years of age, and he intends to take up engineering as a profession. We wish him the greatest success.

Few people, I think, owe more to Meccano than I do. It has decided my career, and this important decision was gained at the small cost of a Meccano Outfit No. 2.

I had this on my tenth birthday, and so much did it please me that I determined to become an engineer. This was, of course, first looked upon as a boyish whim, which would soon "blow over." But later, when my

determination did not waver, my parents began to think about it.

Then an engineering and technical school was opened in my town. Meccano having awakened my zeal, I passed the entrance examination.

After a bit we came in our Science lessons to such things as levers, pulleys, and the inclined plane. Here again, Meccano was of infinite value to me, for I found models illustrating these and many other mechanical and scientific principles in my Meccano Manual, which is my favourite book.

All this time I was in my spare time building model after model with great enjoyment. I also regularly ordered the *Meccano Magazine*, in which I read with interest the praise which other boys training as engineers had for Meccano.

Meccano has also made a handy boy of me. Before I had Meccano I was quite useless—couldn't tell a nut from a bolt. Now I can do odd jobs about the house, and I am familiar with the parts of many machines. I am quite dexterous in fitting up Meccano models; my fingers have become accustomed to the little nuts and bolts, and are not "all thumbs" as they used to be.

Before I was given Meccano I used to moon about, complaining that I had nothing to do. Now, when I have time to spare, out come my Meccano outfits (for now I have three, and a fourth coming) and all is merry and bright.

If my career is a success, as I mean it to be, half the credit must go to my schoolmasters and instructors, but the other half must assuredly belong to that King of Toys—Meccano.

MAX F. COVILL.

#### Prize Essay by Phyllis M. Alexander, Christchurch Street, Ringwood.

Most people consider Meccano to be first and foremost for boys, so perhaps it might interest you to hear how I, a girl, spent so many happy hours "messing about," as my brothers termed it, with their Meccano outfit.

Their Meccano outfit was given them two years ago by an aunt, and naturally they were very enthusiastic over it. As I was a regular bookworm, Meccano did not interest me much, in fact I thought it then a rather overpraised toy. All my spare time I spent in reading. I read so much that my eyesight began to feel the strain. The doctor then said that for a time all reading must be given up. This was in the winter, and I hardly knew what to do with myself in my spare time. Everything seemed to go wrong, and I wandered about with a "physog like sour milk," as one of my brothers most elegantly expressed it. Then gradually I became interested in the boys' Meccano. In less than a week I became absorbed in it. We did have some fun then! We used to time ourselves seeing who could construct a certain model in the shortest time. It was rare fun. I found there was a real joy in constructing and making things for one's self. When once I had started on a model, I felt like staying to finish it, even if it took me all night, and no doubt I should have done so if mother hadn't sent me to bed punctually at nine. I may say that mother is very great on "Early to bed and early to rise, &c." After I had discovered the joys of Meccano I had no time to spend in being dull. You can imagine, too, how proud and happy I felt when I found that I could soon show the boys a thing or two about their own Meccano.

Model-making is such a complete change from reading that I often now turn to Meccano after a hard day's work.

After you have read this, perhaps you will see why I am grateful to Meccano for what it has done for me, for without it I am afraid I should have passed a rather miserable winter.

PHYLLIS M. ALEXANDER.

The following are extracts from essays, which are specially commended:—

"Meccano has given me two winters of happy evenings. I believe my father has enjoyed it as much as I have done."—H. H. Thompson, Glasgow Road, Kilmarnock.

"Meccano has taught me to be thrifty. I have always got my Meccano money box."—A. E. Baker, 89, Kenilworth Avenue, Walthamstow.

"I soon found I had the one toy in the world that always contained something new and interesting."—Norah Gleed, 47, Killiser Avenue, Treatham Hill.

"It has made me popular amongst boys, because the first question they ask me is 'Have you got Meccano?'"—B. N. Giles, 19, Holywell, Oxford.

"Another thing Meccano has done for me is to make me more ambitious."—W. D. Russell, Mount Pleasant, Stornaway.

"Meccano has made many an enjoyable hour for me and it has taught me patience."—E. Fuller, Kenninghall, Thetford.

"Meccano has gained for me the name of being a clever boy. It has also made me popular, and made me many friends."—T. J. Handley, Royal Infirmary, Liverpool.

"Meccano is my best friend, because I never fall out with it."—L. Kaye, 64, Coldcotes Avenue, Leeds.



# MECCANO



## OUR MAIL BAG

The Editor has a little talk in this column with his Meccano boys. Whether he has space to reply to them all here or not, he is always glad to hear from them. He receives hundreds of letters each day and only those which deal with matters which are likely to interest other Meccano boys can be dealt with here.

Correspondents will help the Editor if they will write on one side of the paper only.

F. Round, City Road, London.—We are very glad to hear that you have gradually added to your No. 0 so that you now possess a No. 5 outfit. Your suggestions for the Meccano Magazine are quite sound, but owing to restrictions and shortages there are difficulties in making a change just yet.

L. Lawrence, Barnes.—We will give your suggested new parts very careful consideration, also your neat design for a Meccano badge. We are very interested to know that you are also inventing for the Admiralty and for the Ministry of Munitions.

M. Atkinson, St. Leonards.—Your little girl must be a very clever girl indeed to win prizes for three years in succession with Meccano models. We hope her latest effort was successful.

Stanley Williams, Aberbeeg.—We are sorry you will be laid up so long, but you seem to be quite happy with Meccano. You will not have to wait long now for your Meccano Spring Motor. We are already at work on this valuable part of the system. You have our best wishes for a complete recovery.

E. J. Giles, Oxford.—"Compliments to the Editor, and if he has many correspondents like my son Basil, he must need a large heart and tons of patience. He is our only one at home and his one theme is Meccano." We have very many ardent correspondents all of whom stand very high in our affections, and it is no tax on our patience to read and reply to all their wonderful letters.

N. Allen, Crewe:—  
"Said little Bill to little Will,  
Things are a trifle warm oh!  
Let's find a spot that is not too hot  
Where we can play with Meccano."  
You have the Gilbertian touch, N. A. Hope you made real butter with your Meccano churn, and dodged the coupons.

Max. F. Covill, Weymouth:—  
"Boys and girls come out to play,  
The moon doth shine as bright as day,  
Leave your sorrow, and leave your woe,  
And come to play with Meccano."  
Quite a nice first effort, Max. Now that you have commenced to write to us we hope you will continue.

Stuart H. Wilson, Barnsbury.—You seem to run your Meccano Club on excellent lines, and you deserve great success. Your Club Magazine is very creditable indeed.

Jack Stevenson, Paisley:—  
"There is a duty I don't like,  
'Tis playing the piano;  
I try to skip it every night  
To play with my Meccano."  
We hope this is not strictly true, Jack. We expect you are able to find time for both these pleasurable pursuits.

Alfred Surridge, Smethwick.—Thanks for your excellent description of the Meccanoland Pantomime. We saw it ourselves in Birmingham, and it was splendid. Hundreds of Meccano boys have written us to say how much they enjoyed it.

Ralph Fortescue Allen, South Kensington.—Your verses are very good, and we wish we had room enough to print them. We are glad you derive so much pleasure from Meccano. You are a lucky boy to have your mother and sister take such an interest.

R. H. Budden, Southsea:—  
"Let those great big lathes keep turning,  
Let them turn out much more stuff;  
For I really know that I want more so  
I haven't got enough.  
I want some cranks and couplings,  
And more parts I can't get.  
Let those great big lathes keep turning round  
Till all my wants are met."

Not a bad effort for a boy who has been run over and had infantile paralysis. We are very pleased to hear that you are as strong as ever again.

F. Lawrence, Blackwater.—We are pleased to know you are so interested in the idea of a Meccano Club, and we note that you would prefer the head-quarters to be at Liverpool. Thanks for your offer of a club room free of expense.

William T. E. Kemm, Wepener, South Africa.—Your model of the Victoria Falls Bridge is excellent, and judging from your photographs you have thrown it across the brook near your home in a workmanlike way. If you will send us a larger and clearer photo, giving a full view of the bridge and the surrounding landscape, we may be able to find a place for it in the Meccano Magazine.

John Lewis, Wynberg, South Africa.—We are not by any means forgetting that South Africa needs outfits and parts, and very soon we shall be able to send regular shipments. We are always glad to hear from you and we found your description of Camps Bay most interesting. Please give our regards to your father and brother.

Jas. Spence, Leith.—We are glad to welcome you as a new correspondent, and we hope to hear from you often. We can quite understand that the Meccano Magazine puzzles you a little. We publish it just as often as we can, but paper and labour shortages still worry us, and a little time must elapse before we can send it at regular intervals. Just now the prospects seem somewhat brighter.

Mrs. M. Kelsey, Mahlabatim, Zululand.—"I purchased for my little sonny a Meccano outfit for Xmas, and he is very enthusiastic indeed. His dad and I have to listen to Meccano morning, noon, and night. We reside right in the middle of Zululand, and a game like this to a boy away from other playmates is indeed a blessing."—Such letters as yours are a blessing to us, and they give us the keenest pleasure. Please ask your boy to write to us occasionally.

Percy Aston, Maritzburg, Natal.—"A little while ago dad had a piece of sterilising machinery to make, and the manager wanted to know what it would look like, so he made it with Meccano, and the men in the shop made it from the model."—We are always glad to hear of such incidents, which demonstrate the engineering utility and the accuracy of Meccano parts. You will see from this issue that a new Grand Meccano Competition has started. We look forward to receiving your entry.

F. Peacham, Bayswater.—You are on sound engineering lines in advocating the introduction of a rack in the Meccano system, and you will be pleased to know that this part is now being made in our factory, and will be ready very soon. Bevel gears will follow. We are glad to know that yourself and your brother are staunch supporters of Meccano, and that you consider it the "leading light and top dog of all boys' hobbies."

N. Humble, Nunthorpe:—  
"The boy stood on the burning deck  
Whence all but he had fled;  
He was playing with Meccano,  
And would not raise his head.  
There came a burst of thunder,  
The boy, oh! where was he?  
He was up among the angels  
With Meccano—R.I.P."

We knew, of course, that Meccano had penetrated to the uttermost ends of the earth, but we had not heard that Casabianca had retained so strong a hold on his outfit.

L. Baker, Maiden Bradley.—We will certainly make known to Meccano boys your warning that they "should not bolt their storage cabinets last thing at night for fear of indigestion."

Jack Burton, Erdington.—We are sorry you have been so ill, and we have hurried with this number of the Meccano Magazine so that you can read it and be cheered up. Send along your poem "Now the War is Over," also the raspberries when they are ready.

L. Parton, Wellington, N.Z.—We were very interested indeed in reading an account of your Meccano career, and we have heard from the manager of the N.Z. Meccano Agency of your Giant Big Wheel and its effective appearance, decorated with coloured electric lights.

F. W. Southern, Leicester.—We are glad to know that Meccano enabled you to perfect the principles of an invention for triangulated spring wheels for motor cycles. With you, we look forward to the day when Meccano will be used in all schools. Very many progressive teachers already appreciate its merits and make effective use of it.

## How to get the Meccano Magazine Regularly

Under the new Government regulations we are unable to send the "Meccano Magazine" to any one except those who directly apply to us for it. If, therefore, you wish to become a reader of the M.M. it will be necessary for you to forward to us a request for it to be sent to you regularly, accompanied by 2d. in stamps for postage on the next four issues. A double subscription of 4d. will, of course, ensure the next eight numbers being sent to you.

## Meccano Manuals of Instructions



There are two Meccano Manuals of Instructions, and no Meccano boy is properly equipped unless he has them both. Book No. 1 is the regular manual which goes with the main Meccano outfits. It contains illustrations and full instructions for making 326 fine models; some of the models have been designed by our own staff of experts, and others are prize-winning models contributed by Meccano boys, from every country in the world. Price, 2s. 6d., or 2s. 9d. post free.

Meccano Manual, Book No. 2, has only just been published, and it contains illustrations and instructions for building 100 entirely new models, very many of them prize winners. It contains Tanks, Guns, Submarines, Searchlights, and other warlike models; also a new series of simple and intensely-interesting scientific experiments which any boy can make, and which impart a lot of useful knowledge. Price, 1s. 3d., or 1s. 5d. post free.



## No. Prices of Meccano

|       |  |       |
|-------|--|-------|
| No. 0 | Outfit with full instructions for building | 6/-   |
| 1     | do. do.                                    | 10/-  |
| 2     | do. do.                                    | 20/-  |
| 3     | do. do.                                    | 30/-  |
| 4     | do. do.                                    | 50/-  |
| 5     | do. do. (Carton)                           | 70/-  |
| 5     | do. do. (Wood)                             | 100/- |
| 6     | do. do.                                    | 180/- |

No. 6 in well-finished cabinet with lock and key.

## Accessory Outfits

|        |                                 |     |      |
|--------|---------------------------------|-----|------|
| No. 0a | converting a No. 0 into a No. 1 | ..  | 5/-  |
| 1a     | do. do. 1 do. 2                 | ..  | 11/- |
| 2a     | do. do. 2 do. 3                 | ..  | 12/- |
| 3a     | do. do. 3 do. 4                 | ..  | 22/- |
| 4a     | do. do. 4 do. 5                 | ..  | 17/6 |
| 5a     | do. do. 5 do. 6 (Carton)        |     | 65/- |
| 5a     | do. do. 5 do. 6 (Wood)          |     | 95/- |
|        | Inventor's Outfit               | ... | 10/- |
|        | Meccano Clockwork Motor         | ... | 12/6 |

Each Meccano outfit is complete with all parts and tools necessary for building models. Full instructions are included and the youngest boy can commence to build at once without study. An accessory outfit may be purchased at any time, enabling bigger and more interesting models to be built. Additional parts may also be purchased separately, at prices given in our published lists.

Remember that though boys play with Meccano for pleasure, and though they get more genuine fun from it than from any other toy, it also gives them a sound knowledge of engineering. Through playing with Meccano, many a bright boy has been started on a prosperous career in one of the most important and profitable professions—engineering and mechanics.

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