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HOBBIES

June 13th, 1931



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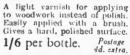
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RESULT-"CHRISTIAN NAMES" PICTURES

117 PRIZES AWARDED TO READERS

Two readers were nearest, with only one mistake, to the official list of solutions published in our last issue, and the First Prize of Four Guineas in goods has been equally divided amongst the following :--

HALL, W., 17, NEWTOWN, THETFORD.

TAYLOR, J., 23, MARLBORO' STREET, BURNLEY.

Three competitors submitted sets with two mistakes, and equally share the Second Prize of Two Guineas.

> CORRIS, G. A., 17, SALISBURY ROAD, EVERTON. FOSTER, N., 11A, ASHTON ROAD, SOUTH YARDLEY, BIRMINGHAM. INGHAM, H., 102, COLLEGE ROAD, DUI.WICH, S.E.21,

112 entries were received which contained three mistakes, and Consolation Prizes have been awarded to the following readers :---

have been awarded to the Adams, L., Ingledene, Pomphlett, Plymouth; Adde, R., Osokoszy, Gladys Ave., Covplain, Cosham; Allen, W., 4, The Meads, Luton; Andrews, L., Belle Vue Cottages, Darton Lane, Mapplewell; Bailey, H., 6, Regent St., Runcorn; Barnes, G. E., Junr, 11, Clifton Rd., Canning Town, E.16; Bateman, F. J., 9, Burgovne Rd., Bow, E.3; Best, F. T., So, Queen's Hd. St., N.1; Birmingham, G., 6, Sandy Grove, Sandy Lane, West Derby; Blades, G. S., 111, Canon St., Leicester; Blair, J. G., Rossemary, Station Rd., Green Island, C., Antrim; Bonewell, H. J., 33, Gee St., Coltman St., Hull; Boyden, G., 3, Park Terrace, Winchmore Hill Rd., N.14; Boyden, G., 3, Park Terrace, Winchmore Hill Rd., N.14; Boyden, A., 18, Main Street, Goldthorpe, Nr. Rotherham; Brookes, C. W., Westhaven, Scafield Rd., Doverourt; Buckley, A., 1, Hewitt St., Hightown, Manchester; Burnap, A. 6, Gratwich Rd., Tilehurst; Bush, F., 44, Mount Pleasant Rd., Tottenham, N.17; Cannon, B., Glencar House, Letterkenny, Co. Donegal; Catherall, H., 4, Clarks Terrace, Weston Pt., Runcorn; Challinor, W., Hope Cottage, Jodrell St., Macclesfield; Clark, S., 112, Histon Rd., Cambridge; Coleman, G. H., 91, London Rd., Chesterton; Pale, N., 15, Hibel Rd., Mcclesfield; Dawkins, P., Devon Court, Grand Parade, N., 14, Village Rd., Aston; Dougall, A. J., 55, Oaktield Rd., Tunbridge Wells; Edwards, O., 45, Middlesbrough; Burose, E. A., 4, Gordon St., Luton; Edwards, P., 4, Eden, Rd., Tunbridge Wells; Edwards, O., 45, Middlesbrough; Burose, E. A., 4, Gordon St., Luton; Edwards, P., 4, Eden, Rd., Tunbridge Wells; Edwards, O., 45, Middlesbrough; Burose, E. A., 4, Gordon St., Luton; Edwards, P., 4, Edwin, Gartside, J. H., 4, Houghton St., Koyton; Sat, Suthin; Hi, Lawson Rd., Dartford; Gilbert, L., 39, Baldwin St., Stehewick; Gillett, F., Howend, Houghton Conquest; Gut, H., 1, Hawson Rd., Dartford; Gilbert, L., 39, Baldwin St., Stehewick; Gildet, F., Howend, Houghton Conquest; Gildet, J., Hickling, A. C., 9, Maple Close, Cambridge; Holmo, A., 26, Sondord Ave, Swindon; F

he following readers :—
Dockyard, Chatham ; Lance, R. G., 99, Park Rd., W. Duly, Kuch, S.E. ; Lane, A. E., 190, Douglas Rd., Acocks Green ; angtree, F. H., 66, Royal Oak Rd., Woking ; Lorimer, H., 3, Shankston Cres., Cunnock, Ayrshire ; Main, R., 800, Crow Rd, Amiteland, Glasgow ; McCaig, A., 23, Kelvin Terr, Kirkiniloch ; Mellor, N. C., 44, Ovenden Rd., Halifax ; Moore, L., "Leydon," Roman Kd., Ingatestone ; Newman, J. Watheld, L., "Harlie, "Maple Ave, Macclesheld ; Pittaway, A., 1, Forge Row, Abertillery ; fonstorough, Rotherham ; Okfield, L., "Harlie," Maple Ave, Macclesheld ; Pittaway, A., 1, Forge Row, Abertillery ; fonstorough, Rotherham ; Okfield, L., "Harlie, "Maple Ave, Macclesheld ; Pittaway, A., 1, Forge Row, Abertillery ; fonstorough, Rotherham ; Rose, A., 106, Caludon Rd., Coventry; Kyan, F. J., 114, Mosely Rd., Highgate, Birmingham ; Senet Rd., Rotherham ; Rose, A., 106, Caludon Rd., Coventry; Kyan, F. J., 18, Bankhouse, Pudsey ; Sharpe, G., Market Gelishungh, Fife ; Skingsley, R., 13, Belle Vue, Upper Bridge Kd, Chelmsford ; Slater, S. G., 8, Albert Place, Exmouth ; duroch," Lundin Links, Fife ; Spendelow, H. K., Needing, worth, Huntingdon ; Stedman, G. K., c'o Frefan Hall, Llany; tond, N., Y. Tamworth ; Sutton, S., 164, Stanley Rd., Wakefield ; Mort, Manworth ; Sutton, S., 164, Stanley Rd., Wakefield ; Kiton, F. J., Sunnyside, Peterchurch, Hercford ; Swane, Kd, Na, Kaefield ; Mard, Market, H. G., 33, Rylsterton ; Walker, T., 20, Sonwood Rd., Radiford ; Troman, R., 537, Brown off, Aine, Ward, End, Birningham ; Twyman, W., 104, Wooth, Wate, Market, B. G., 33, Rylsterton ; Walker, T., 20, Sonwood Rd., Radiford ; Troman, R., 537, Brown off, Aine, Ward, End, Birningham ; Twyman, W., 104, Wooth, Wate, Market, B. G., 33, Rylsterton ; Walker, T., 20, Sonwood Rd., Radiford ; Troman, R., 537, Brown off, Aine, Ward, End, Birningham ; Waterhouse, Y., 104, Nonkseaton ; Walker, J. M., 13, Brown St., New Springs, Walthew, F. B. G., 54, Soosebery Mace, Inversity Materhouse, Y., 104, Nonkseaton ; Walke Warboys, Hunts.

All Prizes will be dispatched to winners in due course.

SPECIAL CROSSWORDS (CASH PRIZES.) See page 328.





Second article of a series.

LEARNING TO SWIM By S. G. Hedges

Some useful advice for the beginner by "Hobbies" swimming expert.

Floating should next be studied.

bather would like to become an allround swim-The mer. beginning of this. of course, is moderate skill with one more or strokes. But it is not

VERY

Perpendicular floating.

enough to be able to swim across a stratch of deep water—you will want to "stand still " in it occasionally, and to rest without coming ashore. So then, *treading* water and *floating* should have secondary place in one's swimming programme.

It you have a knowledge of the breast-stroke, treading water will be fairly easy—it will not be very difficult if you have not.

Swim out until you cannot touch bottom, and then allow the legs to drop. When you have reached the perpendicular position required for treading water, you may begin to work the legs again, with a rather quick breast-stroke action. The whole movement is, of course, vertical-the legs draw up, kick out, and close together. There is no gliding pause as in actual breast-stroke, and the drawing up is rather shortened. Together with this kick the arms may perform a gentle paddling just in front of the chest, keeping their palms downward.

An alternative method is to work both legs exactly as when you run upstairs—the soles of the feet, pressing down one after the other, give the necessary constant support. The arms may paddle similarly in this method.

Treading Water.

When trending water is performed as it should be, the head remains steadily above the surface. A good swimmer can even keep his shoulders out. A very good way of testing the strength of your kick is to work your legs alone and hold the arms straight up above your head—it should be fairly easy to stay like this for perhaps half a minute. The ideal way of floating is with the body horizontal along the surface, face upwards, and with the arms stretched beyond the head. Not everyone can achieve that, for a great deal depends on one's build. But you should try it. Lie on your back, inflate your chest; slowly sweep the arms round the surface until they are beyond the head, palms upward—and then wait. If you are to be successful, your feet must rise until they are at the surface. This bringing up of the feet is largely a matter of balance : the chest floats readily enough, and the problem is to balance the legs and feet by the head and arms. To do this the arms must be at full stretch and the head must be strained backward.

Do not assume that you are a non-floater because your first few attempts are not successful. This horizontal position is very difficult to acquire, except by the fortunate few who are exceptionally buoyant.

But there is an easier style of floating, which is of the same practical use for resting purposes. In this you do not trouble about raising the legs. Simply in-

fate the chest; spread the arms in line with the shoulders; lean the head back until only the mouth and nose are clear of the water, and allow the body and legs to hang limply down from the surface.

Life Saving.

Having got thus far in your general swimning development it is time for you to learn something of life-saving methods. A great many fatalities would be averted annually if all bathers had even the most elementary knowledge of what steps to take in an emergency.

It may happen at any time this summer—you may be swimming or strolling near to the sea's edge, when suddenly there may come a shout for help. And you may be the nearest person to the one in danger !

What shall you do ?

Supposing you have never given a thought to the matter, and so are

caught quite unprepared—how terrible if a tragedy should follow. But supposing you are ready with the knowledge and the ability—how splendid to be able to save a life.

Not always the expert swimmer is of most assistance in a drowning accident. Better be a moderate swimmer, with life-saving ability, than an expert without it.

First of all, whenever you are on a seashore, or at any bathing place, acquaint yourself immediately with the



whereabouts of lifebelts, ropes, boats, and such-like aids. Stage an accident in your mind occasionally and run over just what you would do.

Supposing a bather twenty yards out is taken by cramp and tumbled over by a wave, losing nerve and shricking for assistance. Well, if the water is not deep, you might wade out and help him to shore.

Should the sea be very rough a human chain might be safer. In case of a heavy backwash you might fix a rope round your waist, and let someone on shore hold the end while you dashed out for the rescue.

But the most common emergency is when a swimmer tires in deep water, or gets carried out from the shallows, and so loses nerve. In such circumstances, especially if you are not a competent swimmer, it may be advisable to fling a cork belt, plank, or anything that will give support until some rescuer can reach the drowning person.

Releases and Towing Methods.

But, providing that you are a moderately strong swimmer, with a fair mastery of back stroke, you may, with a little practice, equip yourself for rescue work in a very short time, by practising the various releases and towing methods with a friend.

The clutch of a drowning man is proverbially dangerous and the would-be rescuer must not be squeamish in effecting his release so that both may get to safety. Often it is possible to swim over the top of the attacker,

so that he becomes immersed and in the confusion of swallowing water loses his grip.

To tow a drowning person to safety you should swim on your back.holding him face up-

wards above you by gripping his arms just above the elbows. In this position you have firm control if he should struggle, and yet can keep his head well above the surface and drag him along, without much hampering your own kick.

If a drowning person is exceedingly violent when you approach him it is sometimes advisable to tread water until ho becomes quieter.

A would-be rescuer is often concerned as to whether he should take off his clothes before going out. Except in very short distances the few seconds wasted in getting rid of shoes and coat are always more than saved in the subsequent speed of swimming.

Artificial Respiration.

Sometimes a person needing help remains quite calm, and is able to give assistance to his rescuer. In such a case get him to lie on his back with his hands on your shoulders and his feet beneath your chest. You will then swim breast-stroke and push him in front of you, for both your arms and legs will be free. If he keeps his arms rigid and presses strongly down on your shoulders he will keep affort quite easily and searcely hamper you at all. Everything depends on his correct position. See that his legs touch your chest, his chest bulges out of the water in iront of your face, and his head is pushed back until his ears are immersed.

Should a person be brought to land unconscious, artificial respiration must immediately be commenced, and a medical man

sent for. that in any rescue the fraction of a minuto may mean the difference between life and death. thereforealways be ready for a A rescue. rescue !

A STAMP COLLECTOR'S EMPORIUM.

A RECENTLY introduced section of that well-known stores, Messrs. Selfridge and Co., Ltd., of Oxford Street, W.1, is the finely equipped philatelic section shown in the photograph to the right. It is replete with every conceivable requirement for the stamp collector. Here he may inspect rare as well as current issues, and he will find that the assistants are something more than mere salesmen, for they are each experienced in philately and are able to discuss in an interesting way the world of stamps. The stamp collector will find plenty to interest him in this section, which is an endeavour to give a irosh complexion to the usual stamp emporium. It is modern, light, and the issues have been carefully arranged so that they can be progressively inspected.



Remember

In short,

HOBBIES



UT casts are often stained for fishing; you can buy them ready dyed in various colours, as mistblue, sorrel, gregn, and "camouflaged." But in case you wish to stain clear natural gut yourself, then the following formulas will help you. To obtain a green weed shade, first boil the gut in a solution of alum to get rid of the grease, and then in a solution of indigo with sufficient turmeric to get the exact shade required. Strong green tea will also impart a pretty good green stain if the gut is left to soak in it for some time. Green lues can also be obtained by boiling a piece of green baize in water and immersing the gut in it. A brown shade can be imparted to gut by soaking the cast in coffee ; the gut should be put into it whilst it is very hot, and be allowed to remain for some hours till the desired tint is arrived at. An amber or yellow stain is obtained by taking a handful of common barberry tree and steeping it in boiling water. Let the gut remain a couple of hours, and dry in a fairly warm

room. Blue-black writing ink will give varying shades of colour according to the length of time that the gut is allowed to 'soak in it. To make gut a "water colour" take a teaspoonful of red ink, same amount of soot, and about a third of a cupful of water; simmer over a fire for ten 'minutes: when cold, steep your cast in it until the desired stain is achieved.

Preserving Natural Baits.

338

To preserve minnows, loaches, gudgeon, etc., to keep for future use as baits for pike, trout, etc., the best solution is formalin. About a tablespoonful of formalin in a tumbler of water is a good

mixture; put your baits in this, and leave for a day or two, then remove and place in a suitable glass bottle or jar in a slightly weaker solution. This will keep them for months in good condition.

Dressing a Silk Line.

There are many methods of dressing a silk line in order to preserve it. Trout lines are generally dressed when bought; but if you should desire to treat an undressed line, try the following: Take a tablespoonful of linseed oil (boiled), beeswax and resin, pieces about the size of a walnut; pulverize the resin and cut the wax into thin slices. Fut them together in a jam-jar in boiling water till dissolved, mix with a piece of wood, and put the line in when the mixture is warm. Afterwards hang it up to dry, stretched out in an airy room, and clear eff any superfluous fiquid by taking a piece of sponge between the finger and thumb and rubbing it along; rag will do if sponge is not available.

A Useful Bag.

You can make a useful fishing hag out of a piece of good waterproof material. A convenient size is about 16in, long by 12in, deep, and it should be fitted with a flap and two buttons and a short strap and buckle. A buckle or a curtain ring attached to each top corner will serve for the shoulder strap attachment. The interior should be divided longitudinally by a third piece, and all the seams should be carefully turned in, double-stitched, and varnished. If one of the interior compartments is lined with rubber material it will be all the better, as after fish have been placed in it the bag can easily be washed out. (See illustration.)

Preparing Worms for Fishing.

Worms for hook baits should be well scoured, tough, and lively. They should be procured a few days beforehand and placed in a porous flower-pot in fresh clean moss to scour. Some anglers sprinkle a little milk

over the top of the moss. To keep a stock of worms they should be placed in an old tub filled with good leaf- mould and bits of old sacking, with a layer of moss on the top. Inspect the worms periodically and remove any dead ones. The best kinds of worms to keep handy for hook baits are red worms (frequently called cockspur worms), found in decaying vegetable matter, old leaves, and soft soils. Marsh worms and the striped brandlings are also useful.

Curing a Tacky Line.

Sometimes a dressed line becomes tacky or sticky, and is rather more than a nui-

sance in consequence. One method of dealing with it is as follows. Mix some ordinary whiting in a deep saucer or similar receptacle with cold water until it is of the consistency of thin cream; coil up the line and immerse, leaving it in the mixture for two days or so, taking care that all parts of the line are thoroughly coated with the preparation by turning it occasionally. Hang up the coils to dry, shake off any superfluous whiting, and rub down with a cloth or piece of soft chamois leather.





A simple and easily made fishing

bag.

HOBBIES

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Nananananananananananananana****



HOBBIES

June 13th, 1931



A^N interesting and jolly sort of holiday is boatcamping. If you have read—and who has not ? —that entertaining book, "Three Menin a Boat." you will doubtless have experienced a desire to emulate Harris and George and their pal, living your holiday in a boat, sleeping on the bosom of the river or beneath the stars. Such a holiday is adventurous and romantic.

A good boat can be hired by the week or fortnight from any of the boatyards on the river. It is advisable to hire a fairly roomy craft, as comfort is essential. whereas speed is of no matter. A likely boat is a pairoarod pleasure skiff, about 18ft, by 4ft, Gin. By removing the middle thwart you have a fairly big space available for sleeping accommodation. All that you require is a mattress to fit this space and the necessary blankets. The tent may be fixed up so that the craft is covered from stem to stern. The method of supporting and erecting the cover is simple enough, either by a light iron framework made to fold into a small compass, or by two short masts, one fixed at the bow thwart, and the other at the after thwart; between these masts and secured to their tops is a light ridge pole, over which the tent eover-which should be of green Willesden canvas -is stretched ; this is then fastened down to the ends of the boat and around the sides by strings looping on to hooks at short intervals. A very snug "house" when all is tightened down for the night. In the daytime the canvas is rolled up and the masts taken down.

A Patrol Tent.

340

Or, if you prefer it, you can take along an ordinary "Bivouac" or patrol tent, and pitch camp on the river bank, after mooring the boat somewhere handy. There is, however, one thing to be remembered; some bank owners object to camping, so that you need to make sure that there is no objection to your pitching a tent on land before you do so; it is not always possible to camp by the river without trespassing on private property; always obtain the necessary permission, rather than risk it. When camping in the boat itself, which is the greater fun, select a spot well sheltered from the wind, away from the towing-path, and beside a bank low enough and convenient for an easy landing. Secure the craft at both ends, with ropes sufficiently long to allow for the boat rising and falling in any swell caused by the passage of motor-craft or river steamer. Always make quite sure that the boat is properly tied up before retiring for the night.

It is a good plan to take along two fairly large wooden boxes. One box you keep for the things needed during the day, and the other for the night things. In the day box you carry stove, fry-pan, kettle, oil, tin-opener, etc., and in the night box, a collapsible lantern, candles, matches in a corked bottle, slippers, etc. Foodstuffs should be procured fresh daily from the village shops on the banks of the stream; it is a nice change to take some of your meals in a café or riverside inn.

Hints on Clothes, etc.

Boots, well greased, are preferable to shoes when camping on the river, as the meadow grass is wet with dew at early morning and in the evening. When turning in for the night, take off boots and put on a pair of canvas slippers. Boots for boat-camping, by the way, should be stout-soled and strong, for your feet need protection from the stumps and tree-roots with which river-banks abound. It is better to take the trip in easy stages, stopping frequently. Pastimes you can indulge in will include fishing, bathing, swimming, etc., and if one member of the party can play a mandoline you can have music at evening. The early morning swim, followed by a rnn along the bank to get warmed up, will give you an excellent start for the day.

Almost any navigable river or canal will afford opportunities for boat-camping, providing there is a boatyard where a suitable craft can be hired. Your party should not be too large, three or four at the most to share the cost and to assist in the work of towing and other duties.

FIRST LESSONS IN FLYING

In a demonstration at Hanworth Aerodrome the usual elastic catapult method of launching was dispensed with, and the glider was quite successfully towed off by a car.



HOBBIES







HE perplexities of the beginner in any pursuit are likely to be forgotten by those who have attained a measure of proficiency. I have been reminded of this by certain frequently recurring queries received from readers. In the hope of in-teresting such young cohectors as seem to be in need of a little guidance on these simple matters, I will devote this article to a consideration of some points on which there is apparently a general interest among budding philatelists.

Comparative Rarity

be a general

Conducted by P. L. PEMBERTON. the top left-hand corner.

days, but not all by any means: there are stamps of quite recent years which were issued in such small quantities that they are exceedingly rare, and others dating from before 1850 which were used in such large numbers that they are exceedingly common.

Condition.

Another point on which some Collectors seem to require schooling is the importance of "condition." Of the stamps that are sent to the Editor for valuation, quite 75 per cent. are in such poor state as to be quite worthless. I cannot too quite worthless. I cannot too strongly urge upon collectors the absolute necessity of rejecting every stamp that is not perfect in every respect. Thirty years ago collectors were not so particular, and were content to fill spaces with stamps which to-day would be consigned to the flames without another thought. The demand for perfection has grown with the intensified study of stamps, with the intensified study of stamps, so that a common stamp in un-impeachable condition is now of more account than a rarity with a chunk out of it. In the case of stamps of high price the slightest defect, such as a thin spot in the paper, a crease, a pinhole, slightly elipped perforations or imperfect centring of the design as regards the perforations (known in the collectors' perforations (known in the collectors' jargon as " off centre "), reduces the

market value by more than a half : market value by more than a half; and if a stamp has any of these defects in a marked degree it becomes almost unsaleable at any price. In the case of an unperforated stamp, the size of the margins is the prime consideration. Specimens with large equal margins on all sides are worth immeasurably more than stamps cut close, and if the design is the least close, and if the design is the least bit cut into the value drops almost to zero. Old collections generally contain only a very small proportion of perfect stamps, consequently they to zero. are almost invariably a source of great disappointment to their owners when they come to sell.

Stamps

m

Forgeries.

Young collectors whose purchases are confined to inexpensive stamps have little to fear from counterfeits. The unscrupulous faker generally



belief among non-eollectors and young beginners that the older a stampthe more it is worth. Many

A French Congo stamp very much off centre and therefore almost unsalcuble.

almost unsalcable. people seem unable to understand that four the second second second second for the second stamps valuable as compared with others, that I offer no excuse for others, that I ouer no test people labouring a point which most people it moved as self-evident. There would regard as self-evident. is an old proverb which says. AII that is rare is dear; that which is everyday is cheap, ' and all experi-ence proves the truth of this. Many kinds of stamps have been saved in large quantities and so are common : large quantities and so are common ; of other kinds, comparatively few are available, and these are un-common; their values are graded accordingly, and with the precision of long years of experience swayed by the laws of supply and demand. High up in the scale are varieties that are so uncommonly uncommon that a Crossus might comb the markets of the world without turning up a specimen. It is true that most of the great rarities date from early



On sule at all Newsugents and Book-stalls, or by post 1/2 each from George News, I.d., 8-11 Southampton Street, Jench Strand, London, W.C.2

confines himself to imitating scarce stamps, and though there are exceptions, they are too infrequent to be troublesome to the beginner. Some people have an idea that if a collection has not been added to for fifty, years or more all the stamps must be genuine. This is a great fallacy. Forgeries were more rife in the early Forgeries were more rite in the early sixties than they have ever been since, and old collections nearly always contain a good sprinkling of those early "fudges." In former days, however, forgeries were very erude. They found a wide market because early collectors were ill-informed : the lithographed present illmorned : the innographea presen-ments of the engraved or typographed stamps which imposed upon our grandfathers, only cause anusement to collectors of to-day. Much greater skill and cunning is required by the modern faker, and it requires a good

deal of expert knowledge to detect some of his wares. This, however. as 1 have said, is a bogey that the beginner need not worry himself about-it is the concern of the advanced collector, who protects himself by exercising care in the acquisi-

of his market.



A fine copy of a Bavarian stamp of 1849 which con still he bought (used) for 3d.

tion of specimens and the choice

Any handyman can make this stand with a few odd pieces of fretwood and a fretsaw. Here is exactly how to do it.

ERE is a simple type of table electric lamp I made of wood with shade of stout eard-ard. In making the base board. In making the base cut out a 61/11.-sided square in ‡in. oak and form ‡in. wide chamiers on the four L. Now draw diagonal lines lin. oak and form

top edges, as shown in Fig. 1. across the piece and set out the two mortises to take the uprights. These uprights (see Fig. 1) are four in number and when shaped and glued together form the centre standard of the lamp. Each piece is $\frac{1}{2}$ in. thick, and the mortises in the base will be thus $\frac{1}{2}$ in. apart. Drill a $\frac{3}{2}$ in, hole in through the centre of the base for the flex to pass through

to pass through. Glue four ‡in. thick corner blocks, 2in. square, allowing nearly an inch to project beyond the edges (see Fig. 1).

The Centre Column.

For the centre standard of the lamp (Fig. 2), two pieces A are required, and one each of B and C. Set out the A are required, and one each of B and C. Set out the shapes from the dimensions given, noting carefully that the extra projection at the feet of pieces A form the tenons. Cut the shapes with the fretsaw and gluo together as shown in Fig. 3. Glue them into the mor-tises and see they stand properly at right angles to the base. To the top of the standard glue on and screw a piece of sin study 2in gauges with a goater of hole. piece of §in. stuff, 2in. square, with a central hole. For the shade a sheet of fairly stout card will be required,

194m. by 174m. Prepare the pattern for one of the sides on a piece of stiff paper, 10m. by 6m. Set out Jin. squares on half this area and line in the shapes (see Fig. 4).

Then trace off the design and transfer it to the other half of the paper by means of carbon paper. Allow an extra lin. margin on the lower edge, as shown, for turning up later. Cut out the openings and outer shape with a sharp penknife.

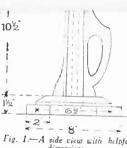
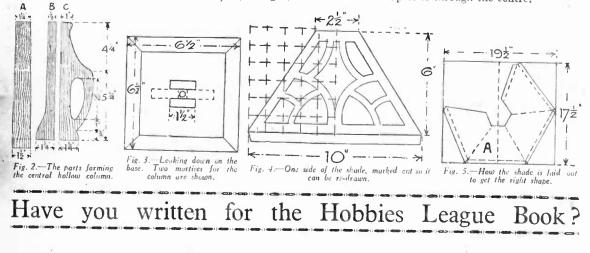


Fig. 1.-A side view with helpful dimensions.

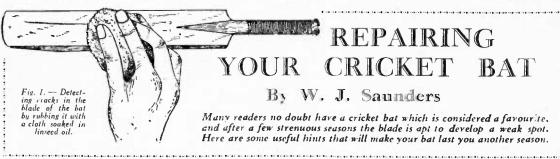
Making the Shade.

Lay the large sheet of eard flat upon a table and mark out the four sides (Fig. 5), commencing with A placed centrally on the card. It will be found that all the other three sides will fit properly on the sheet by simply moving the templet to fit along the sloping sides. Allow a half-inch margin of card all round and to the long edge a harmen margin of card an round and to the long edge of the last section, this being required for gluing. Cut the complete outline, turn up the lower margin and glue to the inside of the shade to give additional strength. Having completed the cutting-out, place the card on a flat table with the line to be bent exactly on the edge. Lay a that ruler on the top of the eard and proceed to bend down the eard to the scored line. Glue the flap of the fourth section to the first, keeping the top and bottom quite even. A hole should be drilled in the four sides of the capping piece of the should be infined in the four sides of the capping piece of the should and four pieces of light brass or copper strip, cut 5in, long and about jin, in width (see Fig. 1), fixed by screws. The shade will rest in notches formed in the tops of the supports. The electric hub formed in the tops of the supports. The electric bulb fitting will be screwed in the capping and the wire carried up to it through the centre,



World Radio History





T is not at all a difficult matter to restore a worn bat. I is not at all a difficult matter to restore a worn bat, provided, of course, the nature of the trouble is not a broken handle. Should the splice of the bat become broken it is hardly worth while attempting a repair, unless, of course, the blade is in fairly good condition. For the present we will deal with the touching up of the weak spots found in the blade, which, when put right, will make all the difference to its performance, providing, of course, you handle it with something like your old form. The most common fault is one or more small cracks

Something new your out torm. The most common fault is one or more small cracks which develop in the front portion of the blade, which are caused by the constant knocking of the ball. These cracks are often so small that they cannot be seen by merely looking at the bat, so some means of spotting them must be employed. Quite an easy way to detect

The repair is finished off by chisel or a pocket-knife. giving it a rub with a piece of fine-grade sandpaper. Binding the Blade.

Perhaps you have been unfortunate in allowing your bat to develop a split in the blade: then, if so, the repair must be done by means of a binding. The pegs may be

must be done by means of a binding. The pegs may be inserted close to the split in the manner described, and then the binding is done in the following manner :— Obtain some fine cord and a picce of beeswax, and well rub a length of the cord with the wax. The cord is easily waxed if the piece of beeswax is allowed to rest in the palm of one hand, and then drawing the cord through the hand over the wax. This should be con-tinued until the cord is well waxed. The binding is a little trailow if done alone, but if

any small cracks in the blade is as follows.

Detecting Cracks in the Blade.

well soak the cloth with

this. Now well rub the surface of the blade with the linseed wad in the manner illustrated by

Closing the crack by driving in a number of wooden pegs.

the turns.

Finishing off the Binding.

Fig. 1, sweeping it from Fig. 2. Closing the crack by d direction of the grain. This should be repeated two or three times with more oil applied to the wad, and then the bat is put on one side for a few hours. After a suitable interval the bat is taken up, and if there should be any small cracks in the surface they will show up in dark lines. Now these eracks should be attended to without delay, for if the bat is continually in use they

First of all, make a number of holes about [in. deep with a bradawl close to each side of the crack, as shown in Fig. 2. Now get a piece of hard wood, and by means of a sharp pocket-knife shave down some small pegs a

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June 13th, 1931

to do the remainder of



alley illus-trated is holes at the back with a series of spikes in front as haz. ards. glance at the illustration willconvince reader the

diamond, 4in. long by $1\frac{1}{3}$ in. wide. The diamond is fixed in position with glue, and then the completed back is fixed with a few small tacks driven through into the back ends of the side pieces. The top of the alley is illustrated in Fig. 3, and this is cut 1ft. 10in. by 8in., taking care to get the sides square. A distance of 1in. from one end cut an opening one end cut an opening 71in. long by 3in. wide.

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The Alleyway Slopes. Smooth the face of the op with sandpaper, and fix it in position, with the opening at the back, by means of a few tacks on each edge of the sides. The alley is completed by gluing a length of -is in. half-round beading along the top edges of the sides, as shown in the finished game. In order to give a slope to allow the



Fig. 3.—The top has a slot cut in to allow the marbles through.

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 E B B D U M A S E F T W R E N T A Y P A R E



the Cross Word Puzzle in our Competition Page of April 25th. The name of the winner has already been announced.

from the face of the channels thus formed in order to provide a clear way for a small small marble to roll. Two side pieces are cut from hin. by ria lin. stripwood, each piece being cut lft. 11 gin. long

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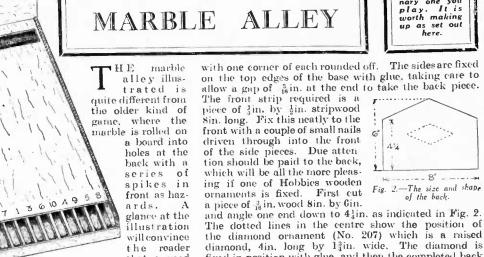
marble to roll down with ease a foot. Sin. long by lin. thick by Jin. wide, is glued on the bottom at the back. The top edge is cut with a slight taper to allow the foot to bed nicely on the bottom. A coat of stain should be applied, which will add a nice appearance to the finished alley. When play-ing the game the small marble used should be able to roll down between the stripwood easily.

This is the correct solution to

The binding is a little tedious if done alone, but if you have a wooden bench vice the bat may be lightly held in this, which will give you both hands free. Commence the binding by laying about three inches of etecting Cracks in the Blade. the cord along the back of the blade, as indicated at X, Obtain a wad of soft cloth and some linseed oil, and Fig. 3. Now hold this end in position, and start off by binding firmly and evenly round the blade. After a few turns, the end of the cord will be made secure and then you will have both hands.

Do the binding in a thorough manner, taking care to pull the cord quite tightly round the blade, and with each turn close up but do not let any overlap. The binding is finished off in the following manner :-Cut about six inches of the cord, and form a loop over the binding, as shown at Fig. 4. Now continue the binding for about another half-dozen turns, and then slip the end through the small loop as shown. Next place your hand firmly over the binding, and then pull the end under by pulling the ends of the loop together. Providing you do this be ball of the loop together.

Do the binding in a thorough manner, taking care



deal of fun is to be obtained from the game, since the deal of fun is to be obtained from the game.) marble is rolled up the board and disappears in the slot at the back. The score is decided by the marble rolling into one of the divisions and reappearing in the front. You may decide to try for a ten only to be greatly surprised if the marble turns up in division one or two. The alley is quite straightforward to make, and should be undertaken in the following manner:

The Base Board.

manner :

The

Completed

Game.

Commence by making the bottom piece indicated in Fig. 1. Cut a piece of $\frac{1}{2}$ in. wood 2ft. long by 8in. wide, and take care to get the sides nice and square. On one end of the wood mark a distance of 1in. from either side, and then make marks $\frac{1}{2}$ and the between this then make marks 3in. apart between this distance. On the marks thus made, nearly glue nine strips of in. by in. stripwood Ift. 4in. long paral.

SPALLO 34

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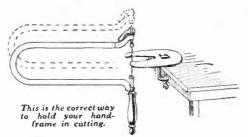
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lel with the sides and with in. width facing up-wards, this being rds, this being clearly shown in wards. Fig. 1. All glue must be re-moved

Fig. 1.—A detail of the inside with its partitions to form the alleyways.

Do you hold your fretsaw correctly?

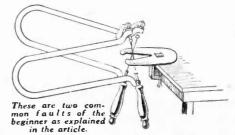
FRETWORK competitions always reveal one of the common faults of the beginner, and it is always easy for the judges to see where a fellow has not been doing his work properly. When you first have a fret-



work handframe, it seems to be heavy at the back, and the steel arms may have a tendency to drop. This may be because you are endeavouring to use a handframe of too large a size. They are obtainable, remember, in various dimensions, from 12in. to 20in. The young beginner should choose a fairly short frame—about 12in, or 14in, is long enough—and get used to holding it correctly before attempting to use a large one. The only occasions, indeed, when the 20in, frames are used

is when exceptionally large work is being undertaken, when the parts cut demand a wide sweep.

This, then, is one of the causes of had cutting—using a frame too large and too heavy. This fault not only tends to make the wrist ache, but is liable, also, to make the frame drop at the back. This throws the sawblade out of upright, and, in consequence, a slanting cut is made in the work. With the frame held correctly, the sawblade runs up and down in a vertical stroke, and cuts the wood the same through all its thickness. If the frame

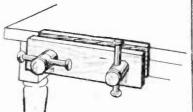


is sloping backwards, on the other hand, the part of the blade which meets the underside of the wood, makes a cut a little in front of that on the top. In consequence, the cut-out pattern beneath the wood is a little larger.

The FRETWORKER'S ABC (concluded)

VICES There are many different kinds of vices, but the Bench Vice illustrated is probably the most generally useful. It costs only 2s. 3d., and can be

only 2s. 3d., and can be screwed to a beuch or table easily. It has a double cramp to get a firm grip of the wood, and is an essential to good work.



WOODFILLER

away with a cloth.

Woodfiller must be used to fill the grain of wood before it is polished or stained. It is usually a composition of plaster of paris and turpentine, used in the form of cream. The Hobbies Woodfiller is sold in tins ready for use, and is rubbed into the grain with plenty of elbow-grease, and the superfluous flakes left over wiped We could not find suitable requirements beginning with Q. U and Z. Perhaps a clever reader can suggest something applicable.



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Let Your Editor Help You. Address your letters and queries to The Editor, "Hobbics," Geo. Newnes, Ltd., 8-11, Southampton Street, Strand, London, W.C.2, enclosing a stamped, addressed envelope. All letters and queries must bear the Let Your Editor Help You "Hobbics," Geo. Newnes, 1 full name and address of the sender.

Our Model Making Competition. MENTIONED last week that I had

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concluded arrangements for another model-making competition. and I may now disclose that the model will be of the White Star Line M.V. Britannic, This fine ocean-going liner particularly lends itself to the production of an attractive water-line model. For the best models submitted a motor cycle and hundreds of other prizes will be awarded. The competition is free. and there is nothing to buy. The design from which the model is to be made will be printed in HOBBIES, and next week J will announce the exact issue in which it is to appear. By the way, full instructions will be given in the paper explaining how the model is to be crected.

Another Puzzle Picture Competition.

N this week's issue the promised Crossword Puzzle appears. Picture Puzzle enthusiasts, however. will be interested to learn that I have already prepared another series of Puzzle Pictures, and these will be published shortly. There will be the same lengthy prize list as before.

Interesting Letters.

 A^{T} the risk of being accused of A tergiversation (hope you get that word right, Mr. Printer!) 1 want to repeat that I am awarding books or silver pencils for the most interesting letters I receive each week. The books are to be selected from George Newnes', Ltd., list, should the competitor elect to have a book instead of a silver pencil.

Oueries by the Hundred.

QUERIES on almost every conceivable subject continue to arrive at my office. The more the merrier ! The purpose of my tochnical staff is to assist readers out of their difficulties. I want you to feel that there is real service behind HOBBIES. It is forty years since No. 1 of this paper first saw the light of day, and for that period our pages

have been designed to instruct the amateur and home mechanic in all the practical arts and crafts as well as in hobbies which are purely esthetic. I was not, of course, in the editorial chair when No. 1 wentout to the public, but my files bear ample testimony to the range of subjects covered. The parents of many of you who read these notes



will probably admit that they learned a great deal from this journal, even as you to-day. I hope, are doing. So let your queries continue to pour in. Write to me as often as you can; for I am anxious to continue the personal relationship which now exists between Editor and Reader.

A Model Hot-Air Engine.

N next week's issue the promised article on the construction of a model hot-air engine will definitely appear. It has been designed by an expert and I can assure you, works extremely well.

OUERIES AND REPLIES.

Ilford and District Model Railway Club.

Mr. R. L. Riddle, at 1,030, Romford Road, Manor Park, London, E.12, asks us to state that he has started a club under the above title, and would like all local readers interested in the subject of Model Railways to get into tone with birs into touch with him.

White Paste for Canvas Shoes, J. H. (Bristol) wishes to know how to make white paste for canvas shoes. Scrape pipeclay into a saucer, add a few pieces of oxalic acid and a very small portion of washing blue, and then pour on warm water until the paste is of the required thickness. If a paste of not quite such a dead white is desired, scrape in a little buff-ball after the oxalic acid has dissolved. In using the paste well rub it into the shoes, allow to dry, rub out. and lightly brush.

and lightly brush. **Making Metal Polish.** Recipes for metal polish are innumerable, I. M. (Worksop), but the following is guar-anteed to be satisfactory. In a high-class-polish for eilver and similar metals the rescu-tial ingredients are silica (the abrasive), tin peroxide or putty powder (the polishing medium), and a vehicle such as petrol, etc. The silica and putty powder must be abso-hutely dry and in a state of chemical fineness or infinite subdivision. Ecola quantities are or infinite subdivision. Equal quantities are mixed together and then stirred into a warmed mixed together and then stirred into a warned mixture of 12oz, solid parafin (candles), 4oz, of naphthalene (albocarbon), 2oz, of beeswax, 11pt, of parafin oll, and 6oz, of turpentine. Make the wax mixture first, and correct its consistency by adding more solids or more liquids as may be required. Test the finished polish, and add more polishing ingredients or more vehicle, until the best results are obtained. For ordinary metals, such as brass and copper, use, instead of the polishing ingredients already metological such as brass and copper, use, instead of the polishing ingredients already mentioned, flour entery, in the proportions of 1 part or 2 parts of entery to 4 parts of the vehicle already given. For liquid polishes, merely increase the proportions of the parafin of and turpentine. The maker of metal polishes may find it worth while to experiment with may and it worm while to experiment with other vehicles, including petrol, turpentine substitute, olein, etc., and with other polishing media, such as tripoli powder, rotten-stone, crocus, etc. A secret of success is to reduce the polishing media to impatpable powder and to wash it, by the principle of levigation, to remove all grit.

to remove all grit. **Power for Model Aeroplanes.** A model acroplane requires a quarter of its total weight in propeller thrust to fly it. A. B. (Bournemouth), so that if your model weighs 6oz, you will require 14oz, propeller thrust. You can measure the propeller thrust by suspending the model on a spring balance, fully winding the clastic and releasing it, noting the difference between the weights registered before and after releasing the airscrew. This difference is, of course, the static thrust. The dynamic thrust, that is to say, the thrust developed when the model is say, the thrust developed when the model is in motion, differs from the static thrust owing to alrected slip, etc., but the static thrust is a fairly accurate guide.

Cutting Metal with a Fretsaw. Yes! L. O. (Darlington), it is quite possible to cut sheet brass with a fretsaw. Place a piece of olled blotting-paper above and below the piece of brass to be cut, and then clamp this between two thin pieces of fretwood, nailing these together. The design to which the sheet brass is to be cut should be drawn or nasted on the wood. or pasted on the wood.

Motor-Cycle Queries.

The smallest motor-cycle made, K. D. (Doncaster), is a French machine of only 75 cubic centimetre capacity. These are not obtainable in England. There are seventy-three different makes of British motor-cycles, and forty-three British dirt tracks,

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