## SPECIAL OUTDOOR HOBBY NUMBER I Hunters of Prise To Be Won!



Published by GEORGE NEWNES, LTD.. 8-11. Southampton Street. Strand. London, W.C.2.

## FINISH THE JOB PROPERLY

The woodworker who undertakes any job should know what to use to finish it off properly. There are various methods for the handyman, and a range of stains, polishes, dyes, fillers, etc., are specially prepared by Hobbies Ltd. They are easy to use and guarantced to give results equal to any shop-bought article.


TRANSFER FIXER
A special solation for I rushing on tranafers for decorating wool. The laryaz bottle furluders a suitable l-ruati. With fult instructions.

Gd. \& 9d. per bottle. Paslage 2!d. extra


WOODFILLER
An evecllent and essential proparation tur milling opengrained wood hefore pulishin:.. Instructions witli each tin. In wo sizes.


In tins.
6d. \& $1 /$
Postage 4 d .

## FREE LISTS.

A complete illustrated list of these and other finishing solutions is abrainable from Hobbies Lid., free on request. This pamphlet olso contains fill insiructions how to polish ordinarh woodwork. Ask at any Habbies Shoo or send a card for leaflet PI to Hobbies Lid.. Derehom, Norfolk.

For all plain Woodwork use

## HOBBIES LIGHTNING POLISH

Any amateur can use this to give a professional french polish to his work. Suitable for any wood in its natural state. Simplo to apply. Guaranteed results. Any loy can use it with easo.
Sample Bottle. A large bottle with flowe, with full ith. jobs, with fulin. ?

THE NAME HOBBIES IS YOUR SIGN of Value.


COLOUR POLISH
Stain and polish ready naixed. Will darken wood and polish at same time Instructimns on the botile. simple to use. In four colours. OAK, MAHOGANY, EBONY, WALNUT.

2/- per bottle.
Postage 1 dd . extra.

SPIRIT STAIN
in excellent quick-drying stain. whith dyes deep and even wilhout raising the grain. Wiale-neek botte for trush Mahogany, Lt. Oak, Fumed Oak, Walnut. 6d. per bottle. postaoe sd.

## Complete Outfit.

 With bottle of polish, three sitains, sandpaper, woodliller, rulber and illustrated

HOBBIES GLAZE
A liglit varuish for applying to woodwork instend of polishl, Fasily nuplied with a brush. Gives a hard, polished surface. 1/6 per bottle. $\begin{gathered}\text { Postage } \\ \text { qd. exfra. }\end{gathered}$ EGG-SHELL BLACK
A jet-black preparation for the edges of cut-out calendars, ironwork, etc.
9 d . per bottle.
Postage fd.


POWDER DYE
For mixing sour own shain. The crystals dissolve in water to the sliade requirerl. For all pepular wood. In 10 shades. 4d. per tin. Postage Illd.
Keep this page by your bench so you can refer to it as required.
Hobbies own shops in Lordon,
Glasgow, Manchester, Bir.
mingham, Sheffeld, Leeds.
Southampton, Brigbton.
 SOUTHAMPTON STAEET, STEAND, W.C.L. Telephone: TEM1rSE BAR 7760.

## The finest

 Hair Fixative for 25 years (a)ANZORA<br>MASTERS THE HAIR

ANZORA PERFUMERY CO., LTD., Londor, N.W. 6.


## A Tense Moment!

The IOLANTHE, Bassett-Lowke's latest masterpiece in motor boats, rides the waves ready for a record run! Her proud owner, eyes


Every line and curve of the IOLANTHE indicates speed. This quality is especially in evidence below the water-line. She will show a clean pair of heels to anything in the same class !
No boy should buy a motor boat until he has seen these spanking new models.

## Clockwork or Electric.

Extra large hull, $27 \frac{1}{2} \mathrm{ins}$. long: beam. 5 lins.; depth, 4 ims. In both clockwork and electric models, the motor is mounted on a separate baseboard, easily remo vable as a whole, enabling ready inspection. The electric model runs from two pocket batteries. Both models have large sentilator, windscreen with brass frames. brass stern tube and propeller shaft. mahogans cockpil with seat.
Magnificently finished in Blue and White, or Black and Wlite, with gold lines.

| PRICES: |  |  |
| :--- | :--- | :--- |
|  | Clockwork | 32/- |
|  | Electric | $-35 / 6$ |

Many other models are described in our new Catalogue. now ready, price 6d. This contains motor boats, sailing yachts. !iners and everything for the model shipbuilder. Ask for catalogue No. S 55
Model Railway Catulogue. "Everything for Models." Over 300 pages. Post paid, i -. Model Railuay Pamphlet. "Run tour oun train service." post free on receipt of posicard.

## BASSETT-LOWKE LTD., NORTHAMPTON

## LONDON

MANCHESTER :
112 Hizh Holborn, W.C. 1
28, Corporation Street

# RESULT－＂CHRISTIAN NAMES＂PICTURES <br> 117 PRIZES AWARDED TO READERS 

Two readers were nearest，with only one mistake，to the official list of soíutions published in our last issue，and the First Prize of Four Guineas in goods has been equally divided amongst the following ：－
HALL，W゙．，ェ\％，NEWTOWN，「HETFORD．TAYLOR，J．，23，MARLBORO＇STREET，BCRSLEY．

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

CORRIS，$r_{\text {s }}$ A．，Iy，SALISBURY ROAD，EVERTON．
FOSTER，N．，IIA，ASIHON ROAD，SOUTH YARDLEY，BIRMINGIIM．
INにHAM，II．，IO2，COLI．EGE ROAD；DUI．WICII，S．E．zı．

## 112 entrics were received which contained three mistakes，and Consolation Prizes have been awarded to the following readers

Aldime，L．．，Ingledene，Pomphlett，Plymouth；Adde，R．， 1）sokosry，Ciladys Ave．，Cowplaitr，Cosham ；Allen，W．， 4 ， The Meads，luton ；Andrews，1．．，Bolle Vue Cottages，Darton Lane，Mapplewrll；Bailey，H．，6，Reyent Et．，Kuncorn； Karnes，U．E．，Junr．，11，Clifton Ral．，Canming Town，E．ı6； Bateman，F．J．，19，Burgoyne Rd．，Bow：E．3；Best，1．．T．， so，Quecn＇s Hd．St．，N．$;$ ；Birningham，（i．， 0 ，Sandy Grove， sandy Lane，West Derby ；Blades，（i．S．，ini，Canon St．， Loicester；Blair，J．G．，Rosemary，Station Ril．，Creen Island， （＇）．Antrim ；Bonewell，H．J．，33，rice St．，Coltman St．，Hull； joyden，（；．，3，Park Terrace，Winchmore Hill Rel．，N．I4； Buydon，A．，I8，Main Street，Goldthorpe，Nr．Rotherhan； Brookes，©．W．，Westhaven，seatield R（I．，Doverrourt； Buckley，A．，I，llewitt St．，Hightown，Manchester；Burnap， 1．，6，Gratwich Ra．，Tilelurst；Bush，F．，+4 ，Monnt Pleasant Kd．，Iottenham，N．I万；Cannun，B．，Glencar House，I．etter－ kenmy．Co．Donexal；Catherall，H．4，Clarks Terrace，Weston Pt．，Kuncorn；Challinor，W．，Hope Cuttage，Jolrell St．， Macelestield ；Clark，S．， 112 ，Histon Kd．，Cambridge ；（ oleman， 1．i．H．， 91 ，London Rd．，Chesterton；Male，N．，I5，Hibel Rd．， Macolesticld；Dawkins，$P$ ，Devon Court，＇irand Parade，
 S．9；Daynes，G．，5t，Station Rd．，Shalford；Deacon，N．， i12，Villafe Rel．，Aston；Jougall，A．J．．55，＇Vaktield Rel．， （lapton， $1 . .5$ ；Dove，N．，2，I Ounst．in St．，Wavertree；Dowell， ［．，3，Hampton St．，Jeamington Spa；Drew，（i．，39，Whit－ stabic Rıl．，Canterbury ；Duckworth，E．，8，Tranmere Rd．， Blackpoul，S．S．；Dum，H．，9．，Portmand St．，Middlesbrough； Durose，E．A．，＋，Gordon St．，Luton ；Edwards，I．，f，Elen Rul．，Thubritke Wells；Filwards， $1 ., 45$ ，Mwrog＇St．，Ruthin； Fithl，H．，i，Pendlestone Rd．，Walthanctow，E． 17 ；Flewellen， If．J．，58，Godrlard Ave．，Swindon；loster，Gi，32，Coney Rd．，Bentley，Doncaster；Mrary，1．，50，St．Walsingham； rartside，J．II．，A，Houghton St．，Royton；Gatland，K．J．， 11，Lawson Kel．，Dartiord ；Gilbert，I．，30，Ballwin St．， Smethwivk；Gillett，IF，Howend，Houghton Conguest； ciold，F．，I．，Copmor Rd．，Portemonth：Graydon．R．，14，
 （iwerncey；llickling，A．（＂，＂，Naple Close，Cambridge； Holmes A．，z，Ormondroyd Ave，Odsal，Ihradford；Inshes， 1．，M．．, ，ripsy Lane，oxford；Hunter，W．， 28 ，Selbourne Rel．，Gillingham：Jumes，H．，I＇whyerochan，Colwon Bay； Jones，E．， 58 ，Edward St．，Pant－Dowlais；Jones，H．G．，＇ 8，Dalamos Rel．，Leyton，E．io；Kcay：J．，＝203，Dumbarton Ril．，Yoker；King，N．，24，Oxford st．，Edinburgh；King， J．F．，Ballymote，Co．Sligo；King，P．，5，the Terrace，H．N．

Dockyard，Chatham ；I．ance，R．G．，0n，Park Rd．，WV．Dul－ wich，S．k．；Lane，A．E．，Igo，Douglas Ra．，Acocks（irem； Langtre，F．H．，66，Royal Oak Rd．，Woking ；Lorimer．H．， 3，Shankston Cres．，Cumnock，Ayrshire ；Main，R．，8oo．Crow Rel．，Ammesland，（ilasgow；McCaig，A．，23，Kelvin Terr．， Kirkintilloch；Mellor，N．C．，ft，Ovenden Rd．，Halifax； Moore，I．．，＂Leydon，＂Roman Kd．，Ingatestone；Vewnan， J．R．，\＆中，Stockmap Rd．，Hackney；Ogley，L．，t，We＇st sit．， Conisborongh，Rotherham；Oldtield，I．，＂Harlie，＂Maple Ave．，Maccleslield ；Pittaway，A．，I，Forge Row，Abertillery； Powell，C．，Ongur，l＇encae，Swansea；Ralsion，P．，103，Rus． lind St．，Kirkdale，Liverpool ；Ranlall，E．，No．7，Station Rd．， Tempsford，Sandy；Rollinson，（ $j_{1}$ ，＂Garden House，＂Don＂ caster Rel．，Rotherham；Rose，－1．，106，Caludon Rd．，Coventry； Ryan，P．J．，IIt，Moseley Rd．，Highgate，Birmingham ； Sennett．J．，I8，Bankhouse，Pudser，Sharpe，G．，Market place，Swineshead，Boston，Lincs；Siblald，J．，The I ordge， Colinsburgh，Fife；Skingsley，R．，I 3，13elle V＇ue，Upper Bridge Rd．，Chelinsford；Slater，S．G．，8，Albert Place，Exmouth ； Smith，W．，I32，Park St．，Kotherham ；Somerville，A．，＂Dun＇ darroch，＂＇Lundin Links，life；Spendelow，H．R．，Nerding－ worth，Huntingdon ；Stedman，ri．R．，c＇o Frefan Hall，Llany－ stumdwy，Nr．Criccieth；Stewart，J．，20，Pitt St．，Portobello； Stone，A；，2I4，Henley Rd．，Ilford；Storer，S．，25，Melgrave Ru．，Nr．Tamworth；Sutton，S．，I6t，Stanley Rel．，Wakefield； Sutton，1¿．J．，Sunnyside，I＇eterchureh，Hereford；Swan， C．，130，Last Trinity Rd．，l．eith；Thurgood，「．W．，on， Norwoud Rd，Radiford；＂roman，R．，53．3，Bromford Lane，Ward Enki，Birmingham；Tw＇yan，W．， $10 . f$ ，Wood－ neshoro Kd．，Sandwich ；Veale，A．，13，Well St．．Plynouth； Waite，B．，10，Newells Villas，Misterton；Walker，T．，2o， Bevericy Rd．，Monkseaton；Walker，J．N．， 13 ，Brown St．， Edinhurgh ；Valker，B．G．，33，Rylstone Rd．，Eastbourne； Walmsley，J．，2，School St．，New Springs，Wigan；Walthew， I＇，Playing lields，Sth．Yardley，Birmingham；Waterhouse， F．A．，6，Hill Jien Grins．，Kingsbury，N．W．9；Watson，C．， 81，Cleveland St．，Guishorongh；Webb，E．， 42 ，Peter＇St．， Canning 「own，E．ı6 ；Wells，W．，5，Kosebery Place，Inver－ ness；Westgate，F．，Murrells Cotts，Harrow Rd．，Warling－ ham；Whitehouse．E．li．，65，Goosemoor Iane，Erdington； Williams，K．，3，Nbbey Terr．，Greenfield，Holywell，N．W．； Wilson，A．，7．Clifton Ave．，WVallsend；Wright，W，A．，4， Nelson Ave．，Wellington Lane，Ilnll；Wyatt，L．，High St．， Warboys，Hunts．

All Prizes will be dispatched to winners in due course．


## Photographers!

For best results in tank developinent, always use

## *ir : TABLOID' ${ }^{\text {an }}$

## 'TANCOL'

(Trude Mark)
DEVELOPPER
In cartons, price 1/6. from all Dealers
? BURROUGHS WELLCOME \& CO.. LONDON
 te 5956

COPYRIGHT

[^0]

Use the Natural Grain

for the 'finish' of your next piece of work. It is so easy to bring out the hidden beauties of the wood with 'Colron.' 'Colron' Wood Dye provides the quick and easy way to sure satis. faction. A single coat, wiped out as far as it will go, and there is your chosen colourbright,transparent, permanent. And in less than 3 hours it is drybone dry - ready for wax polishing with 'Ronuk' Floor Polish. Result: A job you can be proud of-finished in an evening.

## OLROI

WOOD DYE
The 'Ronuk' Stain does not Raise the Grain
A $1 /$ vottle covers 40 Sq . Ft . Write for leaflet to
RONUK, LTD., PORTSLADE, SUSSEX


Whurd it be able to swin across a stretch of deep "ater voll will want to "stand still " in it necasionally, and to rest withont coming ashare. So then. treading woler and floating shoukd hase secondary place in one's swimming programme.

If sont have a knowledge of the breasi-stroke, treading water will be failly easy-it will not bo very difficult if tou have not.

Nwim ont until you cannot touc! hottom. and then allow the legs to drop. When you have reached the perpenticulat position recuired for treading water, you may begin to work the logs again, with a rather quick hreast-stroke action. The whole movement is, of course, verti-ral-the legs draw up, kick out. andi elose together. There is no gliding pause as in actual breast-stroke. and the drawing up is rather shortened. Thogother with this kiek the arms may perform a gento paddling just in front of the chest, keeping their palase dowmard.

All alternative mothod is to nork both legs exactly as when you ran upstairs the soles of the feet. pressing down one after the other. give the neressary constant suppoist. The arms may paddle similarly in this methond.

## Treading Water.

When ireading water is performed as it shoukl be, the head remains steadily above the surface. A good swimmer ean even keep his shoulders out. A very good way of testing the sirength of your kick is to work Four legs alone and hold the arins straight up above your head-it should be fairly easy to stay lito this for jerhaps half a minute.

thought to the matter. and so are
 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 immedintely with the
wheremouts of lifebelts, ropes, boats, and such-like aids. Stage an aceident in your mind occasionally and rim user just what jou would do.

Supporing it thather twenty gards ont is taken by cramp, and fumbled over by a waw, losing nerve and shricking for ansistance. Well, if tho water is not deep, you might wade out and help him on shore.

Should the sa be very rough a haman chain might be waicr. In cato if a horasy barkwash you might fix a ropos fomal your waist, and let someone on shore hold the end while you clashed out in the rescue.

But the most common mmergency is when a swimmer tires in deep water, or gets carried out from the shallows, and sis loses nerv. In surh cireunstances, esperially if you am not a competent swimmer, it may be advisable to thing a cork belt, plank, or angthing that will givo support until some rescuer can reach the drowning person.

## Releases and Towing Methods.

But. provisting that you are a molerately strong swimmer, with a iair mastery of back stroke, you may, with a littho practice. equip yourseli for rescuo work in a very short time, by pratising the various releases and towing methots with a friend.

The clut h of a drowning man is proverbially dangerous and the would bo rescuer must not be squeanish in effecting his relonse so that both may get io safety. Often it is possiblog to swim over the top of the attacker, so that he becomes immersed and in the confusion of swallowing water loses his grip.

Tis tow a drowning perswil to satety sou should siwim ou your back.holding him face up.

wards above you by gripping his arms just above the elbows. In thi position you have firm control if ho should struggle, and yet can kecj his head well above the-suriacos and drag him along, without much hampering your own kick.

If a drowning person is exceedingly violent when you approach hin it is sometimes adsisable to tread water until ho beromes quieter.

A would bo resruer is often concerned as to whether he should take nit his chathes before going out. Fxorpt in very short distances the tow seeonds wasted in getting rid of shoes and coat aro always more than sared in the subsequent speed of swimming.

## Artificial Respiration.

Siomerimes a persen needing help remains quite calm, and is ablo to give assistanco to his reseucr. In such a rase get him to liee on his back with his hands on jour shoulders and his meet 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 afont quito easily and scarcely hamper you at all. J-verything depends on his correct position. See that his legs tomeh your chest. his chest bulges out of the water in iront of your tace, and his head is pushed back until his ears are inmersed.

Should a person be brought to land umenscious. artificial respiration must immediately be commencel. and at medical man sent itor.

Remember: that in anya reseno tho fraction of a mimito may mean tha ditferen mbo. tween life and deatb.

In short. thereforealways bes ready for an restue!

## A STAMP COLLECTOR'S EMPORIUM.

ARECENTLAY introntured section of that woll-known stomes. Messis. Selfiridge and (o.. Ltd.. on Oxtord Street, ${ }^{W}$. 1 , is the findy equipred philatelie section shown in the photogriph to the right It is roplete with every conmeivabla. requimment for the stamp collector. Hero ho may inspeet rare as well ats eurront issues, and he will find that the assistants aro something more than mere salmanth, for they ar. each experienced in philatoly ami are able to dincuss in anteresting way thes worid of stamps. 'The stamp' collector will find plenty to interest him in this serpion. which is :.n endeavour to give a iresh complexion to the usual stomp emporium. It is modern. light, and the issumes have been carefully arranged so that
 they cin be progrescively inspected.


GU'T casts are often stained for fisling; you can buy them ready dyed in various colours. as mistblie. sorrel, gregin. and "canouflaged." But in ease you wish to stain clear matural gut yourself, then the foliowing formulas will help you. To obtain a green werd shade, first boil the gut in a solution of alum to got rid of the grease. and then in a solution of indigo with sufficient turmeric to get the exact shado required. Strong green tar will also impart a pretty rooll green stain if the gut is left to somk in it for some time. Giren hues can also be obtained by briling a piece of green baize in water and immersing the gut in it. A brown shade can be impartel to gut by soaking the rast in coffee: the gut should be put into it whilst it is wery hot, and be allowed to rernain for some hours tifl the desired tint is arrived at. An anmer or yedons stain is obtained by taking a handful of conmoin bar. berye trea and stecping it in booiling water. Let the gut remain a couple of hours. athe dry in a faitly warm room. Blue-black writing ink will give rarying shates of colour according to the lengit of time that the gut is allowed to sonk in it. To make gut a " waler colour" take a leaspoonful of red ink, same amomet of soot, and about a third of a ruptul of water; simmerover a fire for tent minules: when cold, steep your east in it until the desired stain is achieved.

## Preserving Natural Baits.

To, preserve minnows, lonches, gulgeon, rete.. tu kiep for future use as baits for pike. trout. etce. the best solution is Gormalis. About, a tablespoonful of formatin in a tumbler of water is a good mixture: put your baits in this. and leave for a day of two. then remove and phace in at suitable glass bontle or jar in a slightly weaker solution. This will kerp, theth for shonths is good condition.

## Dressing a Silk Line.

There are many mothools of dressing a silk line in urder to preserse it. Trout lines are generally dersed when bought; but if you should desire to treat an madressed line. try the following: Take a tablespoom tul of linsed oil (boiled). beeswas thed resin, pieces about the size of a walnut; pulverize the resin and wat the was intu thin sliess. Fut then together in a jam-jar in boiling water till dissolved. mis "ith a pieee of wood. and put the line in when lhe mixture is warm. Afterwards hang it up) to dry. stictelled ont in an airy romb. and clear off anys superfluous licurid by taking a piece of spronge betwern the finger and thumb and rubbing it aleng: rag will to 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 lwin, deep, and it shouk be fitted with a flapand two buttons and a short strap and buckite. A buckle or a curtain ring attached to each top cornet will serve for the shoulder strap attachment. The interior shoukl be dividied longitudinally. by a third piece. nad all the seams should be cercfully turned in. double-stitched, and varnished. If one of the interion compartments is lined with rubber material it will be all the better. as after fish have been placed in it the bag can ensily be washed out. (Sce illustration.)

## Preparing Worms for Fishing.

Worms for hook baits should be well scoured. toncgh. and lively. 'They should be procured a fen days beforehand and placed in a porons flower-pot in fresh clean moss to scour. Some anglers sprinkle a little milk over the top of the mass. To keet a stteck of worms they should be placed in an old tul, filled with good! leaf- mould and bits of old sacking, with a layer of mass on the top. Inspect the worms perient. ically and remowe any dead ones. The best kinds of worms to keep handy for twok baits are red worms (frequent? called cockspur worms), found in tlecaying regetable matter. old lraves, and soft soils. Marsh worms and that striped brancllines are also useful.

## Curing a Tacky Line.

Soruet ines a drossed line becomes tacky or sticky. and is rather more than a nui. sance in conserguence. One methorl of dealing with it is as follows. Mix some ordinary whiting in a deep saumer or similar receptacle with cold water until it is of the consisteney of thin wrem; coil up the line and immerse. leaving it in the mixture for two days or sob. taking care that all parts of the line are thoronghly contect with the preparation by turning it occasionalty. Hang up the coils to ctry. shake off any superfluous whiting, and rab down with a cloth or pice of soft chameis leather.

## FOUR FINE HANDBOOKS <br> Handyman's Enquire Within. Model Aeroplanes and Airships.

## THE HOME WOODWORKER <br> 25 Simple Working Models.

1/. each (by post 1/2). 96 pages, over 150 illustrations.


A. E. JONES LIMITED MODEL AIRCRAFT ACCESSORIES 97, NEW OXFORD STREET, LONDON, W.C.1. Price List Frec on application.


AN interesting and jolly sort of loliday is hoat. camping. If you have read-ami who has mot ? —that entortaining book, "Three Mroina Buat." you will doubtless have experieneed thesire to emblate Hawis tund (ieorge and their pal, living your holiday in a loat, slecping on the bosom of the river or beneatis the stans. Nuch a holiday is adventorons and ronnantif.

A geod boat ean be hired by the week or fortnight from any of the boatyards on the river. It is advisable to hire th fairly foomy craft, as comfort is essemtial. whereas speed is of no matter. A likely boat is a pairwarod pleasure skift. about 18 ft . by 4 ft . Gin. By removing the middle thwart you hade a faidy bigs sace tratable for sleeping accommodation. All that vou require is a mattress to fit this space and the necessury blankets. The tont may be fixed up so that the raft is covered from stem to stern. The method of supporting and ereeting the cover is simple enough, eithri by a light iron framework made to fold into a small eminjass. or by two short masts, one fixed at the bow thwart, and the other at the after thwart; between these masts and serured to their tops is a light ridge pole, over which the 1 ent eover-which should bo of treen Willesden canvas -is siretrhed; 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 cantas is rolled up and the masts taken down.

## A Patrol Tent.

Or, if you prefer it, you can take along an ordinary Bi rouace" 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 pro. perty; always obtain the nocessary permission, rather than risk it.

When camping in the boat itself. which is the greater fun. solect a spot well sholtered from the wind. awas from the tow ing-path, and beside a bank low enough anil convenient for an easy landing. Secure the craft at both ends. With rapes sufficiently long to alow for the boat rising and falling in anyswell (aused by the passage of motor-craft ar river stemmer. Alwas make quif( stere that tho boat is properly tied up before retiring for the right.

It is a goch phan to take along two fairly large wonden 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. atc.. and in the night boxe a collapsible lantern. candes. malches in a corked botile. slippers. etc. Fioodstutishould be procured fresh daily lrom the village shops on the banks of the strean: it is a nico chatge to take some of your meals in a cate or riverside ime.

## Hints on Clothes, etc.

Boots, well greased, are pretiomble to shoes when camping on the river. gs the meadow grass is wet with dew at early moming and in the evening. When thming in for the tilight. take off boots and put on a pair of canvas slippers. Boots for bont-camping. by the way: shoukt be stout-soled and strong, for your feet need protection from the stumps and tree-rocts with which river-banks abound. It is hetter to take the trip in easy stages, stopping frequently. Pastimes you car indulge in will include fishing, bathing. suimming. etc.. and if one member of the party can play a mandoline you can hase music at evening. The exty morninge swin. followed by a run along the bank to gel wamed up. will give you an excollent start for the day.

Atmost any navigable rivet or canal will aftord oppor tunities 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.


| FIRST PRIZE- <br> Goods to the Value of £2-2-0 | THRD SRRIES | Twelve Packets of 1,000 different Stamps (suppliedbyseff, Pemberton \& Co., Lid.) |
| :---: | :---: | :---: |
| SECOND PRIZEGoods to the Value of £1-0-0 |  | 200 Consolation Prizes of 100 different Stamps (supplied by H. C. Watkins) |
|  | two countries are | all prizes must be WON. |
| hat you have to do. |  | Further pictures will be |
|  |  |  |
|  |  |  |
|  |  | Teseme |
| EP ALL COUPONS UNTIL |  | neate |
|  |  |  |




$\stackrel{1}{1020}$
cxactly how to do it






 nenrly all the to pro
The Centre Column
to







Have you written for the Hobbies League Book?

 Dept. 115, 391, strand, London, w




SALE and EXCHANGE 6 MINT BRITISH COLONIALS 6




 P IçuRR








 $\xlongequal[\text { cmunce }]{\text { and }}$

344
HOBBIES June 13th, 1931


YOUR CRICKET BAT By W. IV. Saunders


 and

 and


Detecting Cracks in the Blade
Ontailin a wad of soft cloot :

 Binding the Blade.
Perinte seo soll dav
 hiserted thise to thans of of a hindititg. The pergs mena h






 dili, and start of b








 $\qquad$ 346
hobbies
June 13th, 1931

A New Kind of











 The name of the wirner has
already been announced.


## Do you hold your <br> fretsaw correctly?

FPETLWORL゙ competitions alwass reveal me of the combon faults of the legimer, and it is always catsy fow the jurges to see where a follow has not been thing his work properly. When you first have a imet.

work handirame, it seems to bis heary at the back, and the sted arms may have a temeney to drop. This may be becalso you are endeanouring to nee a handframe of too large a size. They arm obtainable, remember, in various dimensions. from 1 tin. 10 OHin. The young beginner should ehoose a faisly short frame-abont I2in. or 1 tin. is long emough-and get used to holding it correctly beiom atempting to nse a large one. The unly ocrasions, inded, when the 20in. frames aro 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 heary. This fault not only temls to make the wrist ache, but is liable. also, to mako the frame trop at tho back. This thows the sawblate out of upright, and, in consequener, a slanting cut is made in tho 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 buckwarts, on the other hand, the part of the blade whith meets the underside of the wood, makes a vat at litile in front of that on the top. In consequence, the eut-out pattern bencalh the wood is a little lerger.

## The FRETWORKER'S ABC (concluded)



## WOODFILLER

Ilomoffillir must be used to fill the grain of wood before it is polishod or stained. It is wsually a composition of plaster of paris and thrpentine, used in the form of cram. The Hobbies W'oolfiller is sold in tins ready for use, and is rubbed into the grain with plenty of elbou-grease, and the superfuous flakes left over wiped away with a cloth.

We could not find suitable requirc. ments beginning with $Q . U$ and $Z$. Perhaps a clever reader can suggest something applicable.


XYLONITE
This is a thin romposition like stiff celluloid, but with a black polished surfrace. It is easily cut with the fret. saw, and particularly suitable for small dis. tinetive overlays and of maments. Supplicd in panels 12 in . by bin .



Let Your Editor Help Yous. Address your letters and querics to The Editor, $"$ Hobbios," Geo. Newnes, Ltd., 8-1t. Southampton Street. Strand. London, W.C.2. cnctosing a stamped, addressed envelope. All lefters and queries must beas the tull nalle and address of the sender.

Our Model Making Competition. [ MENTIONLED last week that 1 hat concluded arrangernconts for anothre model-mating compatition. aud I may now diselose that the molel will be of the White star Line M.V. Brilanmic. 'l'his fine ocean-going liner particularly lents itself to the production of an attraetive wģter-line moxlel. lor the best moriels subnitted a motor evele and humdreds of other prizes will be awarded. The competition is fret. and there is nothing to buy. The resign from which the model is 1.0 be made will be printed in Hombies, and next week J will amounce the rexart issme in which it is to appear. By the way, full instructions will be given in the paper explaining how the model is to be erected.

## Another Puzzle Picture Competition.

this week's issue the promiscil Crossword Puzzle appears. Pic. ture Puzzle enthusiasta, however. will be interested to learn that I have already prepared another series of Puzzlo Pietures, and these will be published shortly. There will be the same lengthy $\mathrm{p}^{\text {rrize }}$ list as before.

## Interesting Letters.

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

## Queries 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 difliculties. I want you to feel that there is real servico belhind Hobbies. It is forty years since No. I of this paper first saw the light of day, and for that period our pages
have been designed to insand the amateur and home medranic in all the practical arts and crafts as well as in hobbies which are purely asthetic. [ was not, of course. in the editorial chair when No. I went out to the public. but mef files bear ample testimons to the range of subjects covered. The pharents of many of wou who read these notes


## FREE DESIGN CHART FOR A

 MODERN WEATHER COTTAGE
## MAKING A SUNDIAL

A HOME-MADE BATTERY
AN EOLIAN HARP
LEATHER TOOLING

## CHEMISTRY FOR AMATEURS

Model Aeroplane TopicsStamps - Electrics - Model Making-Cycling Notes, Etc.

will probably admit that they learned a great deal from this journal, even as you today: I hoper 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.

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

## QUERIES AND REPLIES.

Ilford and District Model Railway Club.
Mr. is. I. Liddar, at 1,039, Rennford lhad.
 that he has started at chat, uniter the ahove. title, and would like all locial readers interestod in the subject of Model Railways to get into tonch with him.

## White Paste for Canvas Shoes,

I. II. (Bristol) wisles form how to make white paste for mavas stoms. morap pipectay into a satcer, and a few piencs of oxalic aced mad a very small portion of washims bha, and then poitr on warm water until the paste is oi the rerpuired thimbarss. if a paste of not quiter surif th dead white io derired, serame in a little butf-latll affer the cosatio andid has dissolsed. In using the gaste well rub it intu the shoes, allow to itry, rub out. and lishtly lirusin.

## Making Metal Polish.

IRecijus for metal polish are innumeralde, L. M. (Wurksof), bitt the followithe is gustanterd to be satisfartory. In a high-claspolish for tilser and simiar metale the resent tial ingredients are silica (the ahrasive), tin prexide or putty powder (the felishing umedilum), and a vehicle such as putrol, cetc. The sillica and putty powder must le absohutely dry and in an state of chemical fimemes or influtio subdivision. Jitulal quantities are mitixed tog ther and then st irred into a warmud mixture of $1 \geqslant 0 \%$ solid paraltin (candles). toz. of naphthalene (alleocarbon). "orz. of hereswax, 1 lpt, of paratin oil, and Goz. of turpentine. Nake the wax mixture frst and correct its comsistency by addine more solids or more ligulds as may be reguired. 'T'est the finished polieh, anul add more polishing jngredients or more velutle, until the best resalits are obtained. For ordinary metals. surh as brass and comper, use, insteat of the jobishing ingredients already mutioned tlour emery, in the proportions of 1 part
 already given. For liguid polishes, merels increase the proportions of the parafin eit and turpentine. The haker of metal polishes may find it worth while to t xperiment with other vehides, induding petrol. turpentime suhstitute, wein, ette., and with other golishinge media, such as tripoli powler, rotten-stone. crocus, ete. A serret of surcess is to reduce the polishing nudia to inmalpable powder the polishing india to impapabe powner
and to wash it, hy the primeple of levigation, to remove all grit.

## Power for Model Aeroplanes.

A monel neroplater requires a quarter of its total weight in propeller thrust to fly it A. 13. (Bournemouth). so that if your noded wrighs Goz. vou will require 1 goz, propeller thrust. You can measure the propeller thrust hy suspernding the model on a spring balance, fibly winding the clastic and releasing it, noting the difference between the weights recistered before and after releasing the airscrew. This difference is, of course, the static thrust. The dynamic thrist, that is to say; the thrist dereloped when the morlel ls in motion. ditfers from the statie thrust owing to alrscrew slip, ete., but the static thrust is a fairly acrurate guide.

## Cutting Metal with a Fretsaw.

Yes! 1. 0. (Darlington), it is quite possible to cut sheet lirass with a fretsaw. Place a piece of viled blotting-paper above and biclow 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 lie cut should be drawn or pacted on the wood.

## Motor-Cycle Queries.

The smallest motor-crcle made, K. $\mathbf{D}$. (Doneaster), is a french machine of only To cubic contimetre capacity, These are not obtainable in lingland. There are seventythrec different makes of British motor-cycles, and forty-three British dirt tracks,

Printed by Newnes e Pearson Peinting Oo. LTD., Exmoor Sticet, Ladbroke Grove, wio, and published by Geopae Nemnes, Lrd. B-11, Southampton Strect, Strand, W.C.2. Sole Agents for Australia and New Zealaud: Gogdon \& Gorce, LTD. South Africa: Central Fens Agency, Lid.


[^0]:    This Camera is far superior to any type uf Box C.mmera ever produced at sucila price. lits any make of

    ## * A Superior

    CAMERA any make of FOR Film 3 t $s=$ ? and stands alone for quality and performance. Covered with bost quality Moroc:" I iramer Jeather Cloth, it is attrato tively finishel, and is indeed the bost Camera Bargain ever offerel. We are clearing our remainiug stork at $s_{1}$ - earh. Orderto-day. Money refunded if not satiofied. " ILLUSTRATED PRESS" (Dept. A.)29, WATER LANE, LONDON, E.C.4.

