## COMPETITIGN CLOCK DESIGN FREE



A JOURNAL FOR THE FRETWORKER סHOME CRAFTSMAN.


## Hobbies

## Special Designs for Christmas

Now is the time to start making for Christmas gifts and here is a selection of simple designs which have a special "Christmassy" appeal. They are decorated with pretty sprays of holly in embossed metal and brightly coloured in green and red. Any of your friends would be pleased with such a gift. COMMENCE NOW !

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THE FRETWORKER'S WEEKLY JOURNAL.


No. 1778.

## OUR FRETWORK DESIGN. MANTEL CLOCK.

NOMEMBJ:R L6, 1929.

TTHERI: will be more than nsual interest in this week's Design be canse not only is it a pleasing piece of work. but it also forms the entry for a great fretwork competition to be annonnced in the Cliristmas Number of Hobbics next week. IFery reader, therefore shonld be sure to keep, this week's Design Sheet in order that he may have it ready to cut ont and send in as lis test piece later on. When the competition was plamed it was decided that the piece of work forming the entry shonkd lee something which the owner could use when it was returned to him after the julging in the competition. For this reason it had to be serviceable. and in order to give an opportmity to cerery worker the design had also to be simple. The Matitel Clock. illustrated herewith is the result and those who have tone any tretwork at all will note the comparatively small amount of work involved and the sinuplicity with which the clock can be made up. We do not of course maintain that a fellow can take up a handframe for the first time and huild the clock with any likelihood of getting one of the early prizes: at the same time there is no reason why those with even very little experience should not be able to enter with confidence. There is so little really intricate work either in cutting or building, and if one has a little assistance in the construction of the clock the parts cut will go
together to form the completed article in quite a simple manner. The details of the parts regnired are shown on the design and against each part is the thickness of the wood in which that particular piece is to be cut. In order to simplify and clicapent the cost of the parcel of wood. We have fitted these parts on to three of the standard panels of malogany supplied by Hobbies. These threc pantels are 13,1$)$ and $E$,


No. 1778. Mantel Ciock.
which are respectively
3 Ifin. $3^{\prime}$ roin. and $\frac{1}{8}$-in.
thick. When the parts are cut ont in the paper pattenn they are pasted on to the pranels as indicated in the three drawings at F ig. I

## No Hard Joints.

There is so little int the actual entting that the worker sliould need very little instruction here. It will be noted that the whole clock is made without any difficult joining problems. There is no halving joint and there is no mortise and tenon to undertake. All parts are squared 1 p to a butt joint. It will be immediately understood therefore that one of the great points in cutting is to see that the edges are true, straight and square. Only by cutting the edge straight will it form a good butt joint. In fixing these butt joints glue should be quite strong enough. but if additional screws or fretnails are necessary they should be only used when another piece is going to overlap and cover them up.

Mark Positions beiore Clearing.

The position of certain adjoining parts is shown on the paper pattern by varions dotted lines. and it is wise to mark off these before cleaning off the paper pattern. The position of the back, for instance, is shown on the upper base and the screw holes indiraterl shonld be made as soon as a part is cut. The dotted lines on this piece too in dicate the various upright parts and the position of then can easily be markerl ont bev pricking a lole at each corner.

## The Centre Column

lle will assume that the cutting of the artual pieces is umberstood, and deal merely with the work of actual construction The work is so plamed that the elock ean be built in independent parts. 'There is a centre column formung a solid box frame. (On each


Fig. 1.-D Panel.


Fig. 1.--E Panel.

$\rightarrow$ indicates direction of mrain of wood.
The 2

## MANTEL CLOCK

USED IN CONNECTION WTYH OUR 1929 GREAT FRETWORX COMPETIIION.

For Prices of Woad and Firtings seo currant Catslogno, or on ayplitation.

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\begin{aligned}
& \text { SEZE } \\
& \text { HEIGH } 8 \text { IN } \\
& \text { WIDTH } 83 \text { IN } \\
& \text { DEPTH } 3 \text { IN. }
\end{aligned}
$$



Fict. Car ine of rach 3/16ia.


4



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5-7- $-1---==$ -



TCREW Y- HACL $-1-$ जुत्य





FIG. 2

## The Side Columns.

Now we can add the two shorter parts which form the sides. Fach of these is composed of a front, side and back, the two former having a fretwork design to cut ont in then. A backing of Japanese veneer or a contrasting coloured wood shonld be added behind these frets to give a better effect. The side ( 1 ) is glued between the front and the back, and then this complete piece is glued in turn centrally on to the side of the main part. Ghe also holds the part to the base and as before, we call put in serews from underneath to provide strength. Thus we have a framework as illustrated at Fig. 2. Each of the three hollow parts has a double top, and in the case of the sides an angle bracket is added in the right-angle there found. Round the botton of these side parts, too, a plinth is formed of $\frac{1}{8}-\mathrm{in}$. wood and these are glued round the solid parts immediately below the fretwork, the end butting between the back and front. Above the top member of the centre part there is a small podiment. 'This is glued


FIG. 3

# Next week we shall publish Hobbies Christmas Number with a Special Design (see page 165) 

## OUR SUMMER COMPETITION

## THE POPULAR VOTE.

IN addition to the many prizes to be won for the best cutting out in wood of the four pictures chosen from the series of photograplis of famons cricketers we have published in connection with this competition, there is another set of splendid prizes for the popular vote. The names of the cricketers to be voted upon are-

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BEL.I. (Glanorgan),
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BOWLEY (Sussex),
GUNN, GLO. (Notts),
HEARNE: J. W. (Middlesex),
HOLMLS (Yorks).
HULME: (Middlesex),
MITCIEL. (Yorks.).
SUTCIIFPE (Yorks),
TYI.DISSLEV (lancs.),
WAI,1)EN (Northants.),
WRICH'l (Kent).

It will be seen that the names are printed in alphabetical order, and give no clue to any order of placing them so far as popularity is concerned. Competitors mmst now consider all the names and place them in whatever
order they think will be most popular, using the coupon below, and commencing by writing opposite figure I the name they consider should liead the list.

The prizes are as follows :-
Ist Prize. Imperial Fretmachine

2nd ., A1. Machine
3 rd, Cabinet Fretwork Outfit
$4^{\text {th }}$," "Gem" Machine
5th ". "Pioneer" Idaunch
6th ", "Lion" Constructional Set
$7^{\text {th }}$,. "Peggy" Launch
8th ", "Seagull" Yacht improved rigging
" Ilercules" Constructional Set
" No. 1 Carpenter's Outfit
" Demon " Eingine
One Gross V'ellow Label Saws
No. 2 Boxed Ontfit
" Ensign " Outfit
'’olishing Outfits
Blue I abel Saws
No. I Boxed Outfit
BottlesHobbies' Lightning Polish


The closing date for both the cutting-out of the Cricket Statuettes and the Popular Vote is Nov. 30th.


## Getting a Move On.

HOW time carries on. Here we are well into November, and only six weeks away from Christmas Day. What was that? Haven't started on Christmas presents yet? Nor cut out any Comic Calendar? Come, come that will never do. There's heaps of things which will crop up just betore the Chistmas holidays. so if we get something done now-early--we sliall not get all hot and bothered later on.
Change a Design for a Motor Bike!

As promised last week you have this week the clesign which is going to bring someboly a motor bike. Vou'se probably seen the clock on the first page-so easy to make, so sensible a thing to keep. 'Then for the fellows who are not more than io years old we hatse anotlier special lat of prizes. In order that some of our younger readers may not feel out of it there will be a junior section, and the simple little bit of work is illustrated in the centre pages of this issue. Both quite easy and straightforward that we expert a big bunch of entries. 'This week's clesigns, however are only just an opening event. Wait mutil next week till you see the long list of prizes. and the particulars of the competition. Then you'll open your eyes and get down to it IHundreds and hundreds of prizes, specially chosen becanse they will appeal to uur reanders. Look out, then, for all the details next week


The Subject of our Christmas Numblir Sinefal Design Sheft Nent Wehk.

## Lots and Lots.

Next week's issue, too is the great anmual Christmas Number and those who have seen them before know they may expect a good thing. The illustration lerewith is of the cal. design to be given anay, but even if you don't think that makes it worth buying there are heaps of other things which will. There is a new cutone calendan printed in colours and given with each copy Then there is a simple little design for a very pleasing Christmas Photo Fratue which anyone can make. On top of all these there will be double the usual number of pages just packed full of goord things for the handsman. Jolly things to make lappy things to do, and to leann - lots of frightfully interesting stuff for any and every reader. Make sure to get your Christmas Number next week. 「es. and what is more, tell your pals about it

## Webb's Winning Work.

All this alout next week has only left room to just mention our thanks aurd congratulations to $H$. Webh, of Tittle Dunmow, Iissex. He lias just sent us a picture (unfortunatel) not suitable for reproduction) of a Tie Box matle from Design No. 1700 , which woll for him first prize at a recent exhibition. He finished it (the work, of course, not the prize) with Hoblsies I,ightning Polish which, says Mr. Webb, "I think gives a beautiful effect to fretwork." A wise and capable worker, evidently Congrats, Mr. Webb.

TuE Eidtor.


TTHE printing press about to be described has been designed to embody all possible requirements that a press, for really useful work, should possess.
It is self-inking, speedy in action, has adjustable paper gi ippers and a self-rising platen. Its actual printing surface is eight by five inches, large enough for all ordinary printing. Hardwood, sucli as oak, should be used thronghout. It will be observed that the body of the press, containing chase, platen, etc., slides on a base between guides. This base also includes the lever and inking roller. When the body is drawn back the roller passes over the type and ink table, the platen comes down and the lever is depressed to make the impression. Push the body forward and the ink table and type pass
trouble about these holes for the moment, nor the lever neither, they must be the correct height above the bottom board, so are best left until the last. The arms that carry the ink roller are 6 tins. long and $\frac{1}{2}$-in. wide, cut from stout sheet brass. They are bored at each end and screwed to the guides at a distance of 94 ins. from the end exactly. They must be free to move easily, and a light spring or piece of elastic is attached to keep them pressed down. The holes into which the roller revolves are cut into slots, so that the roller can be removed when necessary, The roller will be dealt with later. The body of the press can now be taken in hand.

This is shown in Fig. 5. An oblong piece of wood in, thick is cut 1 Iins, $\times 8$ ins. On top of

under the roller, at the same tine the platen rises, the paper grippers come forward, and the printed sheet can be withdrawn.

The whole operation is rapid and simple. Let us deal with the base first. Study Figs. 2 and 3, which are side and end elevation respectively. Cut a piece of wood to the size of the bottom, eut the side guides and screw them to it. For the uprights cut two pieces, 8 by 6ins., and sliape the top. These pieces are dovetailed into the sides. It will be noted that there are two holes for rods; these holes are not bored right through but only half way so that the rods cannot slip out. Do not
this are screwed two strips, in. square section, 1 tins. long, joined as shown by two cross strips. The other end of the long strips are connected by a piece Iin. $\times 2$ ins., the ends of which are cut to admit them. The bottom and middle strips are rebated on their opposite inside edges $\frac{1}{4}$-in. each way. Into these rebates fits a piece of plate glass, kept from working out by two small pieces of tin, hinged by a screw and just projecting over the glass. This is the ink table. Two strips of brass or iron are cut 6ins. $\times 9$ ins. respectively, these are for the inside of the chase. Holes are drilled, two in the short one and three in the long one; these holes are tapped to take


$$
7 \mathrm{cg} .3
$$

rin. screws. Smaller holes are also drilled and comntersunk to screw them to the sides of the chase. Une is fastened to the right side and the other to the inside edge facing you. Before screwing in place, drill $\frac{1}{2}$-in. holes right through the wood in line with the adjusting screws. Fig. 6 , a section through the chase and bed, will make it clear. A piece of t-in. plate glass is dropped in the bed for the type to rest upors. The wooden surface must be planed true; if this is done the glass will not crack under pressure. The platen, Fig. 7. is a piece of in. wood gins. $\times 8$ 8ins. It is strengtlened by screwing two battens across on top, zins. wide, leaving a space between of 2 ins. These are connected together at the front by a piece of inin. square section, for the lever to press upon

The back edge of the platen should be rebated $\frac{3}{8}$-in. deep and $\frac{5}{8}$-in. down, into this rebate the bar to which the paper grippers are attached, fits. The platen in Fig. 7 is shown reversed, to explain this. Take care to plane the surface of the platen quite true.

At each end
 of the rebate a small shaped piece of brass extends $\frac{3}{8}$-in., with a hole bored near the top.

The bar, of stiff brass, fits easily between and has a short projection each end at the top, which goes throngl the holes and is frec enough to move easily backwards and forwards. Between this bar and the edge of the platenare fixed two small springs (pieces of watch spring would do) one at each end. These force the lower edge of the bar outwards and cause the grippers to press on the platen.
The grippers are $\frac{3}{8}-\mathrm{in}$. wide and 8 ins. long, cut from stiff brass sheet. They are bent right round the bar and should be tight enough not to shift, and free enough to be moved


C/4.
alongithe bar as required. Adjust them, so that they press lightly lint fimbly on the platen. Fig. 4 is a detail sketeh to make this clearer. The completed platen can now he hinged to the body.

Strap linges are used. fins. long; they must be bent over as shoun in 1 ig. s. S. To ensince the platen being fixed at the correct height, set nl a few lines of type in the clase, say two lines top and bottom, and two in the middle. IFolld a piece of paper into six thicknesses and ent to the size of the platen, cover $b \mathbf{y}$ a piece of paper large enough to fold over the edge of the platen, and fasten it with drawing pins, the folded paper inderneath. This will make a suitable surface for printing. Lay the platern on the type in the position it is intenderd to occupy and tie romed tightly witlo string Now bore the necessary holes for the hinges and screw tiglit.

Study Fig. 8 carefnlly, which is a back view of the platen and berl hinged together. Against the lower lialf of the linges will be seen two metal brackets projecting. The top edge of these is cut at an mpward angle. Their phrposie is to prevent the platen being drawn back tor far by the springs which I am abont to mention. Tlles also press against the grippers" har athd, forcing it back, ratse the grippers from the paper and release it when the platen rises. It the side of each hinge a look can be seen; these are to fasten the springs to. Fexactly mulemeath will be seen two channels. These channels are finc. wide and $\frac{3}{8}$-in. deep, and extend to the other end of the bed. Into these is mailed at the far end a length of sted spiral spring fitted with a hook. These springs are stretched and attached to the hooks at the back of the platen already mentioned. A lengtl of steel springr


Curtain rod will answer for this purpose, and will be quite powerful enomglt to pull the platen back on to the metal brackets. The lever. Fig. in. should be cut from a piece of wool abont 1 lins. in thickness. It is zins. broad tapering to inin.; the handle portion should be rounded. The semi-cirenlar part conforms to the chrve of a sin. circle and the loole for the rod should be just above and to the left of the centre as shown.

Turning back to the nprights of the base. the holes for the rods shonld now be drilled. Hace the bed and platen in position, and the lever (on top. the height of the rod can then be measinted. I length of $\frac{1}{2}$-int, iron gas pipe conld be used. It is essential that the lever. when horigontal, shonlil just clear the top of the platen, a firm pressure downwards will then make a clear impression. The smaller rod is placed abont 1-in. above the platen. so that when the platen is phshed forward the lever will rest upon it.

To facilitate moving the press backwards and forwards during printing a convenient hamdle can be attached to the rear. just under the hinges.
. Wl that is needed now to complete is the ink roller. A length of 1 inn. broon handle is cut 1 sins. long and a 2 in . nail driven into the centre of each end leaving about $\frac{3}{f}$-in. projecting. Wind some twine round the central portion for a few inches, to hold the composition firmly to the stock.

For the roller mould proenre a cint. lemgeth of zin. brass tube. Cut two romma dises of wood to fit each end. In the centre of these dises bore holes for the wormifl stock of the roller to enter. fairly tightly: In one dise only cut two sennicircnlar pieces ont; these are to riable you to ponr the composition in and als, to let the air ont. Procure a tin of roller composition and melt then holding the roller and monkl in an upright position pour the comproition in and leave mpright montil set. The wooden dises can thet be removed and the roller forced out. liy the way, be careful to oll the inside of the brass mould before pooming the composition in.

One final point. (ioning back lo ligg it it will be seen that the two bars are joined tugether near the centre by two bancls. 'lhese ate ent fronn sheet briss and are $\frac{1}{2}$-in. wide the
rads are bent tightly romed so that the bands will not easily slip. They are fixed after the lever has been placed in position in the centre and their object is to keep it central.
s.lite final point. At lig. 5 two arrows will be noticed lietween these points on both sides should be ghed a strip of wood. Its thickness will be fomed by actual lineasurement The roller stock will nowe ever these stifige and their purpose is to raise the roller after it leaves the ink plate. from the woorlen chase until it comes in contact with the tepe With the roller and type in position pack a few pieces of cathoursl mader the roller stock nntil it is clear of the wool and ret just below the type level. Then phane the wooden strips to the corroot thickness antel ghe on This completes the press, which will he fomm (almble of furst chass work. - W. J J\%.

## SIAMESE CATS FOR PROFIT.

AVISIT to Mrs. Dnmean Ifindley at her beantiful hone at Prestwick in surrey, will show the visitor what can be done in the way of making money ont of Siamese cats. Mrs. IIndley's cats have already won her a great name in the cat workd and inmmerable prizes, and what she says abont them is well worth listening to.

The eats are kept in "eatteries." that is shelters in the open air. thongh at tinnes they are allowed to run about freely when weather and other things perninit annd at the present time there are more than a dowen of the adnlt animals on the place.
" Is there a ready sale for them?" she was asked.
"Yes, I have found no difficnlty in disposings of them." she replied. "There seenns to be a steady and growing demand for them. for they are lovable, affectionate creatmres. remarkably intelligent ; and milike most aats they become, attached to their owner and not to the place."

- Where do these cats conne from in the first place ?"
"That is not known, though they are called - Siamese,' and sometines ' Temple cats.' from the fart that they are $k e p t$ in temples in Siam and other eastern countrici, antil possibly have been regarded as sacred. There is. ton, a variety in China known as 'Wonks, with no tails, and I have one such but these cannot be shown in this comntry as the breeders insist upon long tails; still, I can always dispose of
the kittens as pets thongh not for breeding or show purposes."
" What art the points being bred to now?"
"These of conrse, vary at tinles. but just now yon should try for long whip tails very light coats with dark points to nake a sharp contrast : very bright blue eyes of a certain peouliar shade and long slender bodies. not cobloy as are some species of cats. There are several peenliarities of this species: for instance their eyes tend to cross at tinnes ahnost amonnting to a sphint and their long thin tails often have a kink in thent : persomally I do not object to these points but many breeders do."
- Have yon a special cat (bhb) for Siamese cats?

Yes. and a most energetic secretary. I also (xhibit at the National Cat Club's Show and as yon see I have many cards and certificates won at these shows."
" How many litters do they have a year?"
"I never allow mine to have more than two a year the litters consisting of five or six kittens; at first they are white. but tend to darken as they grow older. Just at first they are slightly delicate and reguire to be kejit in one temperature. but after a few weeks they are all riglit and can be hardened off.'
"How nunch do yon expect for a kitten ?"
I nsually get threce to four guineas for my kittens according to sex. shapee ete. ; but for my prize litters, that is from a cat such as my
(Conimated on page 177).


## THE SEASON'S PROSPECTS.

WITH the summer gone, outdoor lawn tennis has returned into the silence, excepting, perhaps, matches here and there on hard courts, and Hockey has once again come into the light of day to interest, thrill and excite both players and spectators alike, whether in friendly, county, or international games. Profiting by the huge success of lawn tennis in the season just concluded, a number of lessons have been taught, and these, I hope, will be borne in mind by hockey players in general.
probably the greatest argument of all. It is almost impossible to have too good a playing field, and in making the selection there are many points to be considered.

## Situation and Suitability

The first appeal to me is a satisfactory situation-a field handy to the majority of the players, and not too far from a railway station. This is a big consideration for the convenience of the home club's own players, and the visiting teams must be also thought of. Very often


I am looking forward to a good hockey season, and it will be my pleasure, once more, to be as informative as possible, particularly so to the young beginners rather than the more experienced exponents of the popular game.

## The Ground and its Lay-out.

As no hockey club can play without a ground, I propose starting at this point, for, having acquired a ground, its upkeep, condition and situation form a very important item-
one, or more, leading players are unable to play in a match for which they have been selected, owing to the distance and preventive circumstances over which they have no control.

The next important point of consideration is the suitability of the field for the hockey game. By no means should a decision on this matter be arrived at hurriedly; if so, the season's play will be marred, a bad field not yielding its assistance to the players, thereby
(Continued on Page 175).

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T1HE question of a satisfactory source of high tension voltage for the wireless receiver is a problem which confronts every set owner, and there are many points which have to be studied carefnlly before making up one's mind as to the type best suited (o) individual requirements.

There are roughly four main classes which need consideration, namely, dry batteries, wet batteries, accummulators and battery eliminators, that is, electrical devices whereby the house electrical supply is converted into suitable power for operating the valves, but this article will be confined to the first three. Judging from the triple standpoint of convenience, first cost and cleanliness, the dry batteries might be thought to have prior claim. As long as a reliable make is purchased, the length of service given by each battery will depend mainly upon the number of valves used in the receiver and consequently the total plate current demanded.

Of course, all dry batteries must be treated with due care, and any trace of leakage removed by effectively isolating the H.'I. battery from the set through the medium of a switch when the programmes are finished for the night, while the top of the battery must be kept quite free from dust.

When looked at from the point of view of
amual costs, the advantages of relatively cheap first costs for the dry battery are offiset by the total renewal costs, and it is on this score that many turn their attention to one of the remaining types, this being quite apart from other drawbacks, such as crackling noises, which often develop when using dry batteries not of reliable make.

The wet H.'T'. battery is a special form of Leclanche cell with a highly concentrated Sac clement. For the past cighteen months I have been making tests and the results have been really remarkable.

With high tension accumulators, of course, we have the distinct advantage that once the initial first cost has been met, this being gencrally sonewhat high, the only running costs over a long period are due to occasional charging. When based over a period of time this system of smpply often works out manch cheaper than dry batteries, but, of course, the question of a renewal has to be borne in mind after three or four years' use unless meticulous care is taken of the accumulator plates. Generally, they can be relied upon to give yeoman service if properly looked after and the charging placed in capable hands, and thus they find many adherents amongst the wireless public.-H.J.B.C.

## HOCKEY-Continued.

militating against the men showing their true form.

A field usually used for cricket makes an ideal hockey ground, for a club cannot have a field too level or too smooth to give the best results. Then, there is the care of the ground. Every true hockey player is fully alive to the fact that it is up to him to use his share of care of the ground, for is he not one of the moving figures in the playing part of the hockey panorama? To simplify matters, and to help young beginners in the game, we give an illustration of a correctly-laid-out field, for which we are indebted to the Hockey Association.

## Regarding Rules.

To know any game is to overcome and master it. Having succeeded in this laudable and much-desired object, the player's attention must be focussed upon the rules governing the games, in this case, the rules as arranged and scheduled by the Hockey Association. Witlont true governance and allegiance to the rules, there can be no correct discipline. A book, costing but a few pence, can be purchased in any town, and
will be found muder the title of Hockey Rules and Regulations ; this will give all information in detail, and a copy should be in every hockey chib nember's hands.

## The Weight of the Hockey Stick.

The weight of the lookey stick, within reasonable limits, is a matter of the player's discretion. It is advisable not to use a stick either too heavy or too light. A well-balanced stick of about twenty-three ounces (or regulation weight, according to the rules) will be ample weight for a forward, and for the defence a stick an ounce or so heavier will suffice.
It is a big question whether there is anything more important in. the gane than laving a stick which can be wielded easily and which attunes to the play of the individual. Nothing lampers a man more, either in dribbling or giving passes, than using a stick which is too long. Success in the hockey game is greatly induced by quickness of action, and the stick is a very important item in this respect; therefore, it behoves the beginner to make a careful selection, and thus start right.-T.H.L.


## MAGNESIUM RIBBON AND HOW TO USE IT.

A$S$ most amateur photographers know, it is possible to take photograples at night by the help of magnesinm light. Many begimers, however, secm to be a little afraid of using magnesinn, they believing it

to be a little dangerons; maybe they have read accounts of aceidental fashlight exposures, and so fear to use magnesium.

## Several Varieties.

There are several kinds of magnesimm for use in photograply, and some certainly are a little dangerous when carelessly used, but some are perfectly safe.

Magnesinm ribbon is the oldest and safest variety, and this we will describe in detail this week. There is also magnesimm powder, once largely used, but now rarely employed; then there is the very popular llashlight powder, which is magnesinm powder mixed with certain chemicals to make it burn quickly and give a very brilliant light. Flashlight powders act and explode like gunpowder, and call for care, also a little experience to secure the best results.

## Ribbon.

Magnesinn ribbon is sometines called magnesimm wire, as it is really a metallic wire thattened out like a very narrow ribbon, and it is not at all dangerons to use. It is sold in coils (as A) something like the steel spring of a watch, and it is very light in weight. The average price of the ribbon is fifteen pence per ounce, but quarter-ounce coils may be obtained for fourpence, and a quarter of an ounce will be enough to make many pictures. Some dealers sell the ribbon in metal holders ready for burning (cost ninepence) and these are very useful.

The ribbon is not in the least troublesume: it may be carried in the pocket, and will keep good for many years. The writer
often uses ribbon from a large coil he bought twenty years ago.

## Burning the Ribbon.

The ribbon is lighted with a match or taper, or from a candle, and although a metal it burns slowly, exactly like a piece of sewing cotton or thread would burn.

The lighted ribbon gives off a large quantity of white but harmless smoke, and the light is bhuish and very brilliant, strong enough to make exposures.

To burn the ribbon break a piece from the coil and hold it in a pair of pincers or tongs. Never hold lighted ribbon in the fingers as the leat from the flame is very great, and there is a danger of bumning the fingers.

Short pieces of ribbon are best burnt hanging vertically as B , but when a long piece of ribbon is to be lighted it is better to make a simple hokder and burn it in a horizontal position as C'; it burns steadier this way and is muler better control.

## Simple Holder.

The best and safest way to burn pieces of ribbon over six inches in length is to use a tube. Obtain a piece of tubing, brass or other metal (as 1), from six to twelve inches long and not nore than half an inch in diameter. The wire from the coil (li) is then pushed through the tube and the end (F) lighted.

The tube may be held safely in the hand, and as the ribbon burns (at F) more is pushed through until the required anount has been burnt.


## OUR PHOTO STUDENTS' CIRCLE.

## Hobbies

beng the tince the ribbon is hurning
The length of ribbon to burn (tine of exposure) depends upon the subject, speed of lens, etc. and some expriments may be necessary. On all average it takes about three feet of ribbon to make an exposure at night.

The camera is set on a rest, the shutter opened to " time," the ribbon lighted, and when the required amonnt of riblonit las been burned the lens is closed. When a portrait is taken the sitter mus1, of course, keep quite still while the ribbon burns and the shutter remains open.

## Daylight and

 Magnesium.Magnesium ribloon can be used as a help in daylight work. When taking portraits inctuors on a dinll da*: a piece of lighted ribbon will help and lighten the shadows. I, iglited ribbon is
A Dayligut-ribbon Exposure end like H. A sharp-
ened end will catchs alight almost instantaneously, but a square end may be a little troublesome to light.

## Exposures.

The light given off from magnesiun riblon is not strong enough for shapshots. Time exposures are necessary-the exposure time
also useful when taking flower studies, interiors, etc., on a dull day.

The accompanying portrait was taken indoors on a dull day. The nain light was dull daylight from a winlow, but the shadow side of the face was helped by burning about a foot of ribbon a few feet away.

## SIAMESE CATS FOR PROFIT-Continued

Chanpion lerak I get four and five guineas ; then too. I get a nice sum anmually from stud fees and as you see I have several queens belonging to other people at this moment."
"Are many people breeding these cats in England at the present time?"
"The number is certainly increasing but on the other hand the demand for the kittens seems to be increasing too, at any rate, as you see I have only one litter of small kittens on hand at this moment, and they are not oid enough to offer for sale yet; so you sec they are not hanging on hand."
"Are they easy to manage ?"
" Ves, for they are gentle and affectionate and will readily stay with yous, far more than ordinary cats do. Of course they will stray at times, and if a male happens to cross with some common cat he may reprocluce mongrel kittens of Siamese appearance, but a fenale

Siamese cat if crossed has never yet been known to reprodnce any but ordinary cats which resemble the father, but never lierself ; this is a most curious point I consider in the breed.'
" And no-one knows their origin?"
. No it can only be guessed at for there is no known wild species which resembles them, but they seen a fixed type at the present time."
"Then you consider they can be nade to pay well?"
". Yes; for as I say they are easy to rear and easy to dispose of ; there is a steady and growing demand for then, and in addition they are most interesting loving animals and do not cost much to keep ; of course, there is the initial ontlay; hut taking all things into consideration they can be marle to yield a nice addition to one's income with no very great trouble or cost."-W.I.P.


## GREAT CENTRE FORWARDS

WHAT a variance of opinion you get as to the merits of the players in a great game. Coming away from a game I knocked up against two well-known writer experts. One was of opinion that it was the worst game he had ever seen, whilst tle other said he would never want to see a better. And it is as well so. We view life itself from different angles, If we did not it would not be hardly worth living. Take cricket; the great demand of the times is to quicken the game, quite contrary to those players whose chief feature is defence, and in their way help to give the necessary variety in the struggles.
". Who do you think is our great est centre-forward? " I am often asked, and when I answer "I don't know," the questioner looks at me as if in grave doubts as to my willingness to express an opinion. It is all a question of opinion. I might say Hacking, of Oldham Athletic, is our best goalie, but I should soon be told by Bolton enthusiasts that I had forgotten Dick Pym, or Aston Villa supporters would say that Olney ought to be classed in that category. As long as we agree to differ on opinions we are fairly sure of our ground in social circles.

Now I am not as much concerned about who is our greatest star in that position, David Jack


Dayid Jack (Arsenal) at home. His transfer from Bolton Wanderers created a great sensation.
(of the Arsenal), George Brown (of the Villa), Tommy Jennings (of Leeds United), or Dixie Dean (of Everton), as I am in what makes a centre forward. None of the great players mentioned can do anything at all if their outside men do not feed them; and here lies the secret of a centre-forward success.

I never was a great believer in shadowing in football-neither in Rugby or Succerfor the simple reason 1 have seell so many games lost with concentrating on one player, and whilst the play has been diverted say to one player the other players have usually taken the opportunity to score
"Watch. . . . . " shouted the spectators at a certain match, and the effect of the barrack was that that player simply played for it and the watching lost the match My ideal of a centreforward is that he should le a commanding, strongbuilt personality, blessed with a resolution to get through the de fence, not at !any cost, i.e., brute force, but with an adaptability to seize chances, and he should be very ambidextrous with both feet, and on the hottest of days be as cool as a cucumber.

Also, the centre-forward makes, if his personality is strong enough, the best captain and leader, for he is in a position to see the changes of activity as the game goes along. It is not an absolute necessity that the centre-


Tommy Jennings, the Leeds United Pilot-a determined Centre-forward.
forward should be a great sprinter, though speed is a great help, but with speed he can often overrun the ball.

If you have aspirations to become a pivot, watch our great centres of to-day and note their different styles of play.

I happen to be the head of a Photo Press Agency, and have liundreds of footer pictures pass through my hands, and if I only see the legs of certain centres I can tell which one it is. There are a number of "shock" centres, who as soon as the game commences, try by shocks to knock the opposing side off their guard, and sometime this comes off, but in the long-run it does not pay. The centre who makes good is the plodder; he who sticks it right to the end ; the player who does not get ruffled in whatever way the attack is coming. Of a certain centre I once heard a player say at half-time " If we could ouly upset him (not roughly) we could win the match; but yon will never ruffle ...... he takes things as if he were sitting at the breakfast table having ham and eggs and
reading a ncwspaper" That's the kind of player to win matches.
Then there is the non-finishing centre, who, maybe, comes down the field in brilliant fashion, and for lack of coolness kicks the ball well over the cross-bar. I well remember how, in one season, times without number, I saw this occur -want of steadying power.

I once asked an International centre what were the chief points to watch in the centre, and how he prepared himself. "There are no great points," he replied, "the chief thing is to be ready, or in other words be prepared; you never know if your own players are going to make a mistake. I may make a mistake, for however good a player is he is bound to make a mistake some time, and it usually comes at a vital match due to the tension we go through."

He also said that centre-forwards are made. I know a Midland First Division club who simply presents their centre with his goals, and all he has to do is to tap the ball into the net. It is merely the finisling touch in the attack. The failing of centre-forward play is due many a time to selfishness sticking to the ball when even just a slort pass would pmaire a goal safely-J.W:O.


Deni (Humbremimin Town) in a inely attitude. at Centre-forward.

## Popular Names for Familiar Denizens of the River.

 (3) 4 (2)IT may not be generally known anong the young anglers who read this journal that many of the fish they catch bear more or less interesting nicknames. Locally, a species of fish may be faniliarly known by quite a different name to what the same fish is called in another part of the country. It would be rather interesting to learn how these nicknames or local appellations originated. In some cases a distinctive habit or some marked feature of the appearance and colouration of a fish has led local folk to dub the same with some name which struck them as appropriate; or out of a popular regard for some sporting fish an old angler has given it a name which las clung to it and becone widespread.

Do you know the " strut "? 'This is the name by which the minnow is known on the 'lrent. And the local anglers have canse to remember it, for there are millions of " struts " in that river ; so mumerous are they that fishing for higger fish is sadly interfered with, for the voracious little " struts" will not give a bait a chance; no somer is the bait in the water than it is being torn to shreds by a horde of minnows. But if you travel in scotland, and refer to a " strut" you wouk have local scots guessing. In Scotland the popular name for the minnow remains " minnin," the same as it was centuries ago. This popular quarry of the scloolboy, who goes fortl witl net and jann-jar, can boast of a large number of other names, ats for instance, "pink," "' baggie." " baggit,"'" Jack Barrel," "' Jack Sliarp,"' 1 neaker," " mennot," "peer " and " shadbrid.'

## The Chub and its Aliases.

Perlaps, at some time or other, yon have caught a liefty chab, a grand sporting fish found in many rivers. Walton, the fannous old angling writer, added the adjective " loggerhearled " to its name ; but the wary chub is no " loggerliead " in one sense, for he is cute enongh when you try to catch him. Well, the chub lias many aliases, and is variously known as the "chevin," "chavendar," "skelly" (in the north-country), "poll," " pollard," " bottling," and "lob." Most of these pseudonyms would appear to have originated from the big, chocky head of the fish.

Club). whatever name you call then by are splendid sporting fish for the siver angler. and as they are fomd in most streans, nsually under willows or overhanging trees where the watel is deepish, they are popular anong anglers.

## "The White Fellow."

There is a river fish of the migratory kind that
is Enown as the " white fellow " in some parts. This is the sea-trout or salmon-trout, a beautiful member of the game fish family. This fish is recognised by a large number of names, and is known locally as " white-fellow" or white trout, grey trout, salmon-trout, peal, and brith-dail. In Devon it is referred to as the salmon-peal, and in Wales as the " sewin." In one stage of its growth before it reaches adult age, it is known by such names as " herling," " whitling," "finnock," "mort" and "I,ammasman," the latter because this species rim up the rivers in good numbers round about I ammastide. When it is quite small, and in what is known as the smolt stage of growth it is labelled by many pretty names, such as "yellow-fin," "orangefin," ". black-fin" and "silver-white." In Ireland it is generally the " white" trout to distinguish it from the yellow or brown trout, which is not migratory.

The sea-trout is a remarkable fish in some ways, for it lives both in fresh water and in salt, like the sahnon, and its life history is full of romance and mystery. It is a very fine sporting fish, and may be callight with fly, bait, or artificial spinner.

## Do You Know the "Miller's Thumb"?

There is a small fish that inlabits our brooks and lesser streanns rejoicing in the peculiar name of " miller's thmmb." It is said to have derived this name from a more or less fanciful resemblance to the peculiar shape supposed to be imparted to the thumb of a miller by its constant use in testing the evenness of the flour as it falls from the mill-spout. Personally, I have never noticed a miller's thumb to be particularly broad and flattened, but it may be so. Certainly the head of this fish is flat and broad.

The fish itself grows to a lengtlo of from three to five inches, and is conspicuous by its broad, flattened head and gills, which in breadth is about equal to one fourth of the whole length of its body. It hides under stones and lurks close on the bead of the strean. It is an ugly looking creature, and will readily take a worm on a small look. Besides its name of " miller's thumb," it is also known as the " bulliead," a popular name, and also as "Tommy Logge," "Pom Čull" and "cnlly:"

## The Popular Pike and its Names.

The pike is well known, and every adnlt angler lives in the hope of some day catching a big one, something over zolb. It is first and foremost a predatory fish, and has earned such sub-titles as the " river tiger," the "tyrant of
(Continued on page 182).

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The parts of the Flyer are contained in a strong flat box. The building of the tower is done quite simply with a sinall spanner, and fill instructions are included. Strong elastic is fitted to the owivel movement and the winding handle has a release stop to prevent it turning when the mechanism is wound up. Both string prevent it turning when the mechanisn is wound up. Both under auducrsplane are pravided so that the joy of fiying can be undertaken immediately. The tower is oi light but strnne steel stands 2 ft . 4 ing. high and rests on a circular base 14 ins. across. The whole thing is compact and tidy when not in use, but serves to provide eadless joy and interest for its delighted owner.

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Ask at any leading toyshops or stores, see one at any Hobbies Branch or write for fres Illustrated leaflot to Hobbles Lid., Dereham, Norfolk.

T1 HE best time for planting Raspberry Canes is at the end of October and during November, but good results have been obtained from plantations made as late as March. The raspluerry cane is easily grown and the fruit is greatly appreciated for both cooking and dessert, and also for preserving purposes. Canes for planting should, if possible, be obtained from a young plantation, for those from old beds lose their vigour quickly and are slow in producing root action. The stems or "canes" attain a height of from 5 to 7 ft . when fully grown, according to the variety. During the first growing season after planting, "colts " or young growths shoot up from the creeping root stock, but bear neither flowers nor fruit unless they belong to the autumnal fruiting class.
A neat effect with good resultsmay be obtained by straining wires to posts placed at the ends of the rows allowing the canes to climb over them. A distance of about 4 ft should separate one row from another, and canes should be spaced at a distance of from 18 to 24 inches apart in the rows.

The pruning of recently planted canes should be deferred till spring. when all growths should be cut down to within 3 or 4 in . of the ground in the case of weak growing varieties, and ito $1 \frac{1}{2} \mathrm{ft}$. with strong growing kinds such as Iloyd George and Pyne's Royal.

A top mulching of dead leaves or litter
applied soon after planting operations have been completed will protect the canes from frosts and also work as a fertiliser for the soil.
The raspberry cane lasts two years, but as quickly as old growtls are pruned away new ones spring up to take their place, and fruit may be obtained for several years from the same plot.? For this reason soil should be well inanured every year, so as to encourage the development of vigorous shoots for the production of fruit during the following season.
The Autumnal Raspberry Lloyd George has in recent years becone widely cultivated, for two crops of fruit may be harvested during one season. This raspberry bears its fruit on the canes of current year's growth, as well as on the over-year wood as in the case of the ordinary summer-fruiting varieties. Wood of current year's growth which has borne fruit should not be cut back, but will probably require to be thinned out. In the case of the summer fruiting varieties of raspberries, however, all growths which have produced fruit during the summer should be pruned to the ground, leaving only young or current year's canes for the production of next season's crop.
Autunnal raspberries may receive more liberal dressings of manure than summerfruiting canes in order to receive good crops from September to November.
Raspberries show signs of exhaustion after six years and new sites must be secured

## DO YOU KNOW THESE FISH?-Continued.

the watery plains," and the "freshwater shark," or "freshwater wolf." It is also known as the " luce" when it attains a large size, whilst small pike are referred to as " jack." In Scotland it is sometimes called the " gedd." " Pickerel " is another name for it. The popular and familiar name "pike" owes its origin to the stiff sharp form of the fish, which resembles the old-fashioned pike or spear with which the old-time pikemen were armed.

One of the best baits for pike is the dace, a fish also known as the "dart," from its darting ways. Then the bleak is also in request for pike bait, and this little fish is sometimes called the "whitling." On the Trent anglers refer to it as the " willow-blade." Izaak Walton referred to the bleak as the "freshwater sprat," and also as the "river swallow," the latter name doubtless being derived from its habits of skimming just below the surface of the water.

## Other Nicknames for Familiar Fish.

Many other fish have nicknames. For instance, the perch is called the " barse" in East Anglia. The roach is also known as the "red fin." The rudd is the "finscale" or the
"shallow." The lampern is severalky called " nine-eyes," " sevel1-eyes," "stone-grig," and "J une-ba." The white bream is termed the "breamflat," and also the "tinplate." The true breann is sometimes referred to as the "bellows-bream" on account of its shape, resenbling a pair of bellows.

In different parts of the country the loacha pretty little fish inhabiting brook and rivulets -is known as the "stone-loach" (probably on account of its habit of lurking beneath stones), and as "beardie," a nane no doubt suggested by the little barbules that hang from its upper lip. It is also known as " colley."

Many of these nicknanes given to our freshwater fish are singularly appropriate, as for instance, "redfin" for the roach, which has such conspicuously coloured fins. Others, however, make one wonder how they received their pseudonyms; why, we wonder, do Trent anglers call the minnow the "strut," as a case in point. It is, however, useful for youthful anglers to know these various nicknames, then they are not at a loss when visiting different waters where fish are locally recognised by different names.-A.S.

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