

THE lounge with dining recess is so popular today that many of our readers will welcome this idea for screens or partitions. To save space they make use of the sideboard, preferably of contemporary design, and provide shelves for ornaments or potted plants. The idea need not be confined to the lounge; it is equally suitable for the kitchen, where a dining recess may be even more acceptable.

The high partition forms a complete screen and may be secured to the floor by means of screws and Rawlplugs. It may be extended at either end as required. The lower partition comprises a set of shelves at each end of the sideboard. These are separate pieces, but can be connected at the back if desired. Pegboard or hardboard can be secured to the back if this is to be converted into a screen.

- Diagrams on next page

FOR ALL HOME CRAFTSMEN
Over 60 years of 'DO-it-Yourself?'

MAKING A

## DINING-ROOM

 PARTITIONA list of thicknosses and measurements is provided for each fitment, and with the leters on the diagrams. A 4 fi. sideboard was used in the illustrations,
but it will only be nocessary to alter the lengh of the top rails (B) and hardboard (C) if your own sideboard differs from the original.
struction the ideare being that the conman need only use hammer and nails or screws. Glue may be added on all the oinis to give extra strenglh. tailed in Fig. 1, securing the shelt supports ( $G$ ) to the uprights $(A)$ berore placing the top rails (B) in position. The to the floor by screws. Alternatively these screws may be omitted and the hardboard back (C) extended down and


The shelves ( F ) consist of tin. wood and should bse securred to the supports with screws. The hardboard back (C)
and the shelves ( $F$ ) ) may be oovered with wallpaper or Marleyflim. The latter may be obtained from Hobbies Ltd. Descham, Norroik, or from Branches.
It gives a lasting finish and can be casily Tho low
It consisists of three units including it. zideboard. Here again butt joints aro used and details of construction are shown in Figs. ${ }^{3}$ and 4. There is an shelves (4) shown in Fig. 4. They can be halved into the upright (3) if desired. Otherwise make the upright (3) in three eparate pipces and secure with glue and with naist hrough piece the colour should blend with the existing scheme. Joints and blemishes may bo
(M.lled and rubbed down.

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Test your joints
A PUZKALE IN WDDD


## LOOK AFTER YOUR CANARY

LOSS of voice is a common complaint among canaries, and is often
caused by catching a cold while First, give a drop or two of castor oil; then put a teaspoonful of glycerine in the water, a piece of gum arabic the size of a pea and twenty drops of paregoric and a dust of cayenne mixed with grated egg in the feeding tin. beak gently with a small stick and drop in the oil. Avoid hanging your cage in draughty places.
bo fed on a pobect to fainting fits should be red on a plain diet, that is, very little drop or two of castor oil occasionally, and never allow anything to friphten it causes of fits. When the fit occurs, hold the cage in the open air and sprinkle the sufferer with a little cold water, which will soon revive it.
Canaries fed on canary seed with just a fow grains of hemp once in a while
are the healthiest and strongest. (R.L.C.)
to take care with all the measurements for it makes all the difference. tin. siripwood cut ingto of litee equal ections each 4 ins. long. The diagrams show how these throe
pieces of wood should be marked out and prepared. Section 1 is best dealt with by drilling three fin. holes, cleaning out the waste with a chisel. Section 2 is a three tin. holes, then make saw cuts for
the vertical slot. Be careful with the the vertical slot. Be careful with the
centre corners where there is a tin. centre corners where there is a tin.
recess and do not allow the saw to recess and do not allow the saw to
overrun. The third section should not present much difficulty.
When the slots have been cut out of the three sections of this puzzle, a fine fiece of wood in the vice, or hold pirmly on the bench, the ving care, that the file is applied at right angles. If you wish you may neaten the ends of each
section by a bevel. section by a bevel. The pieces are then ready for as-
sembly and without spoiling your ensembent of this, perhaps it will be
joyment sufficient to say that section 2 is the last part to be fitted.
(S.H.L.)


## Hobbies' Crossword No. 7


5 Periskt (1))


 Letithend the terif for a chango ( $).$
Bird (o).
 Anquile is it good as uris werra told (1).




## Delicate Chemical Balance

CHEMICAL experimenting often calls for the weighing of minute
quantities of material and to do this at all accurately, a delicate balance is needed. To buy an instrument of this type can be quite expensive, but it is a efficient balance from odds and ends to be found in the junk box.
uspended by silk cord or a small pan flat spring. As material is added to the pan the spring is displaced and its pro gress downward is recorded on a seale ined behind it. The length and also the strength of the spring determines the will weigh.
A piece of thin watch mainspring is capable of measuring in grains, and i carefully made and calibrated, even to
fractions of grains. Increasing the thickness or width of the spring or decreasing
its length will enable you to weigh a greater mass.
Owing to the ease with which this balance several different sizes to cover the range of weights mostly used for one's particular requirements. Those capable of measuring just a few grains will probably be round the most useful, and
it is not advisable to use this particular type for anything above 1 ounce.
The Apothecaries' and Troy ounc contains 480 grains, while the Avoir dupois ounce is only
however, you prefer the Metric system you can calibrate the balance in grammes, and there are 15.43 grains to 1 gramme.
The sizes
The sizes quoted in this article are for the smallest size balance to weigh a few
grains, and it will be necessary to increase these slightly as the capacity of the instrument is increased. Mahogany is the wood generally used some similar hardwood is quite suitable. Cut the baseboard stins. long, $2 \frac{1}{2}$ ins wide and $\ddagger$ in. thick, and bevel or round off the top edge slightly.
much weight, but it should be carry fixed to the baseboard, so that it does not wobble about and give a false read
ing. It is best, therefore, to let it into the has. It is best, therefore, to let it into the tenon joint, although for the lightes balance it may be glued and screwed from the underside.
The shape shown
The shape shown in the diagram is cut with a fretsaw from a piece of wood

The measurements given will enable the piece to be cut fairly accurately to the acts as a stop and prevents the spring
rom getting strained unduly.
Pieces of old watch mainspring can be

$\leftarrow$
obtained in various strengths from most few pence or might would only charge a few pence or might even give them to

Continued from page 212
Experiments with Dimethylaniline
the mouth of the tube to the flame. The This and its fishy smell distinguish it from ammonia, which does not burn and for which dimethylamine could be mistaken on first examination. which
methylamine is found in the brine which has been used to preserve herrings. It also exists in sugar beet.
Now for the dyes. Nigrisin (not to be confused with the better
Nigrosine) is made as follows.
Into a 250 c.c. round bottomed flask put 1 gram of p -nitrosodimethylaniline hydrochloride and 25 c.c. of water and Put a small piece of broken pot in the flask to promote steady boiling. The substance dissolves to a deep yellow solution. Boil the solution. It soon begins to darken to decp red and later formation to be taking place.
After two hours the boiling may be
you. The springs will be coiled up, bu them through the fingers several times. A little experimenting will be needed to determine which strength is mos suitable to meet requirements. It is easy
to change the springs - they are just clamped down tightly by a piece of wood i in. long, tin. wide and fin. thick screwed on top. for the smallest balance to its lightness, will put very little strain on the spring. If this is too fragile, a
small lid may be used, preferably of small lid may be used, preferably of
aluminium or a similar light-weight aluminium or a similar light-weigh
alloy. It is suspended from the spring by three lengths of fine silk.
To complete the balance a scale is
fixed behind the spring as shown, and fixed behind the spring as shown, and
this can be a piece of white card, or better still, a piece of thin plywood
31 ins. one side with white paper.
The scale is easily calibrated by placing standard weights in the pan and marking the
indian ink.
Before screwing the spring in position the woodwork should be given a coat of varnish or french polish to preserve it
and also to give it a professional and also to give it a professional
appearance.
stopped. Make a saturated solution of
brine by shaking ordinary domestic salt (sodium chloride) with water until no more will dissolve. To the dye solution in the flask add an equal volume o brine and let the mixture stand for tated as a black powder. Filter it of preferably with the aid of a filter pump
and dry it in the oven. and dry it in the oven. Nigrisin will dye cotton without the heating with a few c.c. of water in a tes lube, so that you have a full reddish violet solution. Wet out some cotton yarn in warm water, squeeze it and put
it into the dye solution and warm for a rew minutes, at the same time turning the cotton about with a glass rod. The cotton will almost decolourise the dye solution, so readily does it take up the
dye. Remove it, rinse in water and dry it. It will be dyed a full violet-grey

## For Railway Modellers

## Fit up a Camping Coach

A
A N interesting model railway feature which makes use of some
otherwise discarded vehicle (or icles) and becomes a 'lineside' effect, is the 'camping coach'.
Camping coaches are found in quiet sidings near seaside resorts and beauty spots, where they are permanently to visitors.
The coaches shown in the photograph
were found by the writer last year at were found by the writer last year at
Rhuddlan Station, North Wales. ~~~N
By H. A. Robinson Normally the vehicles used for the purpose are bogey and so refitted inside that only one set of steps is required from ground level, this being placed
against a central door of one or other against
side.


Use 'square' characters (Fig 1) as far as possible, which helps the work considerably. Draw the words out on paper
irst to get spacing and shape correct. Then copy on to the side of the vehicle. It is a good idea to draw the letters thin oo start with and then 'fatten
lines with the finest of brushes.
Windows of camping coaches are curtained, a feature that can be copied with some kinds of model coach, while
another effective item is the rubbish bin set beside each vehicle. As well as being
and the rungs (b) being glued in position and the rungs (b) The fimmed. The gight should be brightly painted in buff or sun colour yellows. It adds to the effect if rather more flights of steps than shown in the For the best result on the model railway, set your camping coaches on some siding that runs rather away from other tracks and comes up against a picture
frieze (Fig. 5). One or two small figures frieze (Fig. 5). One or two small figures
standing around also help, as does an open space in front. In fact, if carefully


The first feature of camping coaches which the model railway owner can easily copy is the inscription "CAMP-
ING COACH' in large gold letters along the side panelling. The size of the letters makes their putting on to gauge
0 stock fairly simple. They can be larger than on the coaches shown, with advantage; indeed, the writer has seen
actual examples of much larger lettering.
braked, some of the wheels of campios coaches are usually scotched with wedges of wood to further prevent danger of movement (Fix. 2). Tho bins can be of card or the endis cut from the metal tubls in which medical tablets,
35 mm . film, etc., are cased (Fig. 3). The appronch steps can be made of card (seo Fig. 4) with the tin. continuous
pieces ( a ) creased on the inside pieces (a) creased on the inside and bent

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Tracing Tip
When using tracing paper to copy paper firm and securo with, Sellotapo along the sides. This will later easily peel off the tracing paper.
 $]^{112 "}$


TOAST RAC
tion of the measurements it could easily be made larger. The dowel rods are of graduated lengths, with the largest in the
nn
By S. H. Longbottom
The base should be drilled before bevelling, marking out so that the pegs are tin. apart, starting tin. from each end, using a piece of waste materia on to prepare one or two bases at the same time if you wish to make a few gifts. The base and pegs should be thoroughly
centre and
diameter. need a rail at each end, drilled for the
rods and with two smaller holes for


## 

WE too often overlook the real
value of the common dowe
rod rod by merely regarding it as a medium for jointing. Made in various be utilised for many purposes, usually reducing the cost of a job
A simple example is shown in Fig. 1 form a shelf. It should be noted that this method is not only much cheaper than using shelving, but is actually better in some instances. When used for a pan air to circulate freely and any remaining moisture may drain away. Construction is extremely simple, too, for you only

will keep the pegs in position Fill keep the pegs in position. Figs. 3 and 3a show an casily con structed book trough. Two end plecest tin. material are required, measuring
9 ins. by 4 ins., and these are worked together as shown in Fig. 3a. Note tha four dowel rods are fitted to take the clearly shown. You will need dowel rod about 1 Sins. in length of 1 in. diameter. The design shown is quite simple to produce and and there are many possible variations if you wish to design some thing distinctive of your own. Th crough may be stained and polished, may be painted in gey colours to matc your particular scheme.
All these articles are very quickly made, and require little material. Ont there are lengths of dowelling left ove from some other job that will be
sufficient to make something of thi character, yet give a sturdy finish equal to solid matorial.
shelf is not too wide, tin. rod will be quite suitable. The rails, with rods fitted can be fixed inside a cupboard and an airy shelf is very quickly made. The chief point to remember when
making articles from dowel rods, is that the supporting sides should be drilled together and a piece of waste material cramped underneath to avoid any
splintering. The bit must be kept sprfectly square while boring the holes and a try square placed on the material vill serve as a good guide. Next we have a simple toast rack as shown in Figs. 2 and 2a, requiring a
small base of tin. plywood, bevelled and rounded at the sides, and measurin ins. by 4tins. This rack allows for fou pieces of toast, but with a little modifica-


The unipod is not suitable for lon me exposures, unless the back of the ther support, or thed against a wall or ther support, or the base of the unipod
hrust firmly into the ground. In such cases the shutter should be operated shaking the camera.

## Signing <br> Portraits

HOW nice it is to be able to give photographs of yourself or your
friends signed photographically in yours or their own handwriting. It is really quite simple. No special apparatus is required except a portrait attachmen for the camera.
The usual place to sign a portrait is in photographs are not portraits. Again you may not wish to disfigure the picture, so you could sign in the white several signature negatives giving a range of positions.
range of postitions.
First obtain a piece of white cardboard about eight times the size of your negative; thus, if yours is a 3 i in . by
$2 \downarrow$ in. camera, you will want a sheet of cardboard $28 i n s$. by 20 ins . Now very lightly draw a line lin. up from the bottom edge. This will represent the white margin on your contact print.
Now sign your name as large as possible in the lin. margin at the bottom righthand corner. Also in any other position desired, e.g., top left-hand corner or in Photograph the signature, focusing the whole size of the cardboard on to the one negative. Develop and fix in the usual way. You now require several the negative, each with a cut sut portion in the same position as the signature on your negative. Cut the holes only slightly bigger than the size of the signature and cut up the negative allowing enough fixed to the underside of the opaque card with sellotape.
In use either
In use either for contact prints or enlargements, print the signature first
then the picture. Develop then the picture. Develop and fix in the
usual way and you have your personally signed photographs. Don't forget to print the picture with an ordinary mask if the signature is in the margin and an appropriate mask for any other position


## Chair-side Stand

Handy for that cup of tea and ash-tray
says
A. Fraser

T
HERE are many occasions when one feels the need to relax in an
easy chair with a cup of tea and earete. However, the arm of tea and a (especially if it is an expensive model) is not the place to deposit cups and ash trays. Before the accident happens recognize the right solution - a chair side stand. handy for that tray. Moreover, it serves another pur pose. The tray or trough which forms the bottom of the stand provides newspapers.
In making the stand, start with th In making the stand, start with the
sides. The first piece to cut out is that
shown in Fig Shown in Fig. 1. This should be 18 ins. by
12 ins. 2 ins. from the bottom a groove should be made to house the bottom board of the stand. This should be tin. wide and tin. deep. If you have no grooving plane, use a saw and a chisel This end piece is lin. thick. The wood can be ordinary board or plywood.
Ordinary common wood would do if Ordinary common wood would do if
this is later veneered on the inside and this is later veneered on the inside and
round the edges. Note that the bottom corners are rounded off.
Next, make a piece as in Fig. 2. This consists of two pieces of $5 / 32 \mathrm{in}$. ply-
wood, separated by lin. by lin. square wood, separated by lin. by lin. square
stripwood round the edges. This should stripwood round the edges. This should so, however, one should glue and pin the inside plywood to the other side wall Which has just been made. Then complete the outer side and glue veneer
strip right round the thick section edge. The completed side of the stand should then appear as in Fig. 3. Two of these whill be needed, one for each end of the
stand.

After having glasspapered the parts grooves in the sides and fix in the bottom of the stand. Then attach the
top, using glue and nails or serews top, using glue and nails or serews
(countersunk) into the top edge of the inner section of the sides. Next, attach the rails using glue, and pin through into the edge of the side fix the plywood bottom to the unde edge of the rails. Drive the pins well down and fill in with plastic wood. The chamfer and round off the plywood Bolom edge so that it is unobirusive. well and true, then leave the glue to set. A picce of Marleyfilm would be idea for fixing to the top. Clean up the whole
stand with the glasspaper block. Try to get the bottom edges of the ends (on which the stand rests) as smooth a possible. Half-round metal strip, fixed with countersunk screws, will make good job and leave carsers undy maged over the carpet.
The finishing of the wood is left to the

Now saw out the bottom of the stand. This should be 12ins. by 22 ins. by
tin. thick. Plywood is best. Sec that it is in. thick. Plywood is best. Sec that it is cut in the stand sides, to ensure that it fits properly.
Next, cut the plywood for the top of
the stand. This will be 12ins. wide by


Fig. 2


23ins. long. Note that it is longer than he stand bottom.
The bottom rails are made next. These should be of good quality wood (not phwoier, and round off the outer upper edge, except where the rail engages into the side. Make another similar rail for the other side of the stand
reader. The wood may be stained or unstained, and the surface a dull one or high-gloss one, according to taste.
If veneering nection with the woods, as recom mended, and the stand given a carefu finish, then a very attractive and usefu
piece of furniture will be the result.

## Thought-Reading Trick

T
THIS is another card trick where the performer can quickly find a
card chosen by a member of his audience apparatus. A pack of cards is fanned out, held volunteer from the audience. who is asked to take out one card, retaining it and noting its value. This done, you reassemble the cards into the full pack, remarking that it is
three cards as stated, then withdraw, say, four aces and four kings - or you may use other picture cards - placing one of
these groups at the top of the pack and By S.H. Longbottom N.H. Longbottom
the other group at the bottom. Fig. 1 shows how the cards are arranged be-
fore presenting them to a member for his choice.
can make it appear even more difficul For example, suppose we said we could yery diifar selected cards! This is not things easier for all, in fact, it makes remember to remove any cards before commencing the performance. You may ask one friend to remove four cards, or four friends to remove one card each.
You must make certain that they lay You must make certain that they lay does not matter if two are placed on the same pile, for they wir always reappear setween the two picture cards.


## FIG

some time since they were well shuffied and you trick, and to accomplish it, you deal out four cards from the top of the pack, laying on the table from left to right. Now continue to make four piles of cards, using the same order
When the four piles hav ask your victim to place his card on top of any one of the four piles. He may then place any other pile on top, and remaining.
Take up the full pack from the table, asking him to repeat to himself threo times the value of the card, when you
will endeavour to find it Looking through the pack you will quickly find the chosen card, which is withdrawn and passed to a surprised friend for con-

Here is the solution
First of all, threc cards must be removed from the complete pack. You
will remember that your volunteer takes one, and by removing another three we may be perfectly sure that we can deal out four piles with an equal number of cards.
This is important, for we also want four selected cards at the ton of each pile. So before starting the trick, remove

FIG 2


CHOSEN CARD

FIG 3

When dealing out the four piles, as in Fig. 2, the first four dealt will form tho bottom of the piles and will all be aces. On completion of the dealing, all the top cards should then be kings.

Your member places the chosen card on any pile, followed by a pile on top,
and it should be obvious that the card is now sandwiched between an ace and a yous. When you look through the cards kings, but the fourth pair will have the chosen card between as in Fig. 3, and of course, the patter is only intended to baffe your audience principle of this trick, let us see if wo 218

You may also do the trick by finding hremoved at the start, or finding be chosen cards - when two should be removed. It is essential that the packs be dealt out with our arranged picture As a further and bottom of each pile. times advisable not to use two picture cards, for they may appear too obvious If the pack is afterwards examined. Why not have four picture cards at one end of the pack and, say, four five-spots at the You are
your trick often advised not to repeat but in this itstance same performance, the trick without rearranging the groups of four.

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as simpiy (25 tiths:

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Published by George Fublishted by George Newnes Lid.,
Tower House, Southampton St., Strand, W.C.2-Price 15/-.

The British Journal Photographic Almanac 1957
THE appearance of this compreaspects of the photographic world will 220

## Reviewed by

 the Editorbe welcomed by all camera minded. The high standard of presentation, information and editorial review is fully maintained and the pictorial supplement is, once again, an outstanding conA special reature of this year's Almanac is a new nine-page section dealing at length with the electronic Completely up-to-date information regarding colour photography processes will be found invaluable.
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