HOBBY'S
W.Hobby Ltd (2014)
Knight's Hill Square
London
SE27 0HH

GRANDFATHER CLOCK

Plan No. 1722p

General notes.

Like the majority of Hobby's matchstick kits, working from this plan is achieved by gluing layers of matchsticks to the relevant card templates, trimming each finished part to size, then assembling each of the finished parts, to form the complete model.

Each part is shown, full size, on this plan, and should be cut out, from the plan, and pasted to thin card. (The back of a Cornflakes packet works fine!)
If you do not wish to destroy the plan, you can trace off the individual parts, or have your local copy shop produce you a size for size copy, and cut that up.

On this plan, unless expressly stated otherwise, all parts are made from up to TWO layers of matchsticks. The second, (outer), layer is shown with the matchsticks running vertically up, and down, but you may wish to put these on slanting, or herring bone pattern, to suit personal taste. PVA glue had been the mainstay of matchstick modelling for years, although Aliphatic resin adhesives, allow better level of sanding smooth. Allow each layer to dry, before adding the second layer. Ensure that adjacent rows of matches over lap, brickwork fashion, as shown on the plan. Because match sticks, are, by their very nature variable in thickness, the end result may well be a little uneven. So using a flat sanding block, gently sand the outer faces of each finished part, to about half of the thickness of the outer layer of matches, (producing a finished part of around 4mm, i.e. about one, and a half matches thick, is fine), so as to produce a set of parts of roughly the same thickness, with all of them having a smooth, flat, outer face.

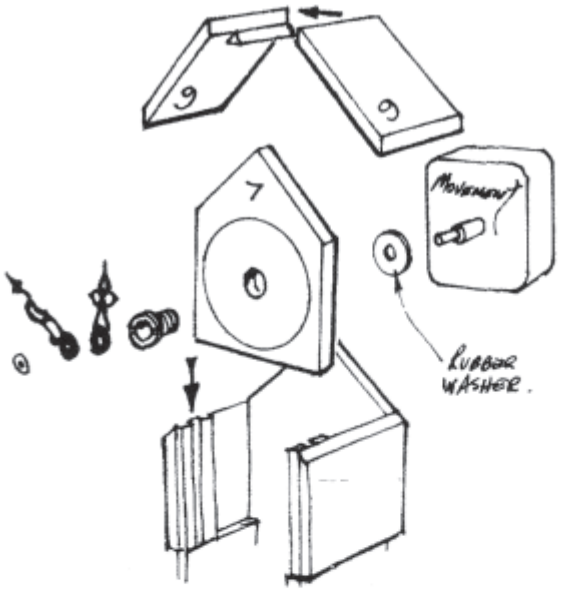
Assembly

Having pasted all the templates onto thin card, and cut them to size, start by laying matches cross wise onto parts 1,4 and both parts 5. Add the second layer, in direction shown, or that of your choice. When dry, sand to approx 4mm. thick with a smooth, flat, face. Bevel edges to 45 degrees as shown, with the card face at the narrower side. (see cross section)
Stick the four parts together, with the corners mitred, and with the card on the inside.
Ensure that the four parts are square, and in line.
Make up part 2, and both parts 3, in a similar manner, (taking note of match direction), sand, and bevel, and glue parts 3 to the front of part 1, and the edges of parts 5, with part 2 mitred to the front of parts 3.
Make up both parts 19, and part 18, chamfering the corners as before, and fit those lower faces of parts 2, and 3, as shown. Cut parts 18a, 19a, 20 x 2, and 21 x 2, from moulded wooden strip, and fit into the corners where appropriate.
Make up parts 14, and 15 using only ONE LAYER of matchsticks, with the grain either vertical, horizontally, or patterned to your own choice. Note that the corners may be left square, or slightly radiused as shown. Fit these parts to the front of part 4.
Similarly, make up part 17, and glue this to the front of part 2.
Make up two parts 6, and parts 7 and 8. Chamfer edges where shown. Make a hole in part 7, to receive the centre boss of the clock mechanism. Make up four parts 6a, and fit them to the inner surfaces of parts 6, to provide a slot in which part 7 can slide.

Fit finished parts 6, and 7, to the upper front of part 1, with all the relevant edges mitred, and the card face on the inside of parts 6 , and 8, but to the front of part 7, make up parts 8a, and part 10. Cut Two lengths of brass tube, (part 22), and drill part way into the bottom of part 10 and right through part 8a, to receive these tubes, later.
Glue them in place on the front of part 8.
Make up part 11 from ONE layer only, and glue together, and to the face of part 8.
Note that further lengths of quadrant moulding, (see parts 20, and 21), May be cut, mitred, and fitted to the underside edges of parts 6, and 8, if desired.
Make up three parts 23, from a SINGLE layer of matches, and fit to the top, and outer edges, of part 10.

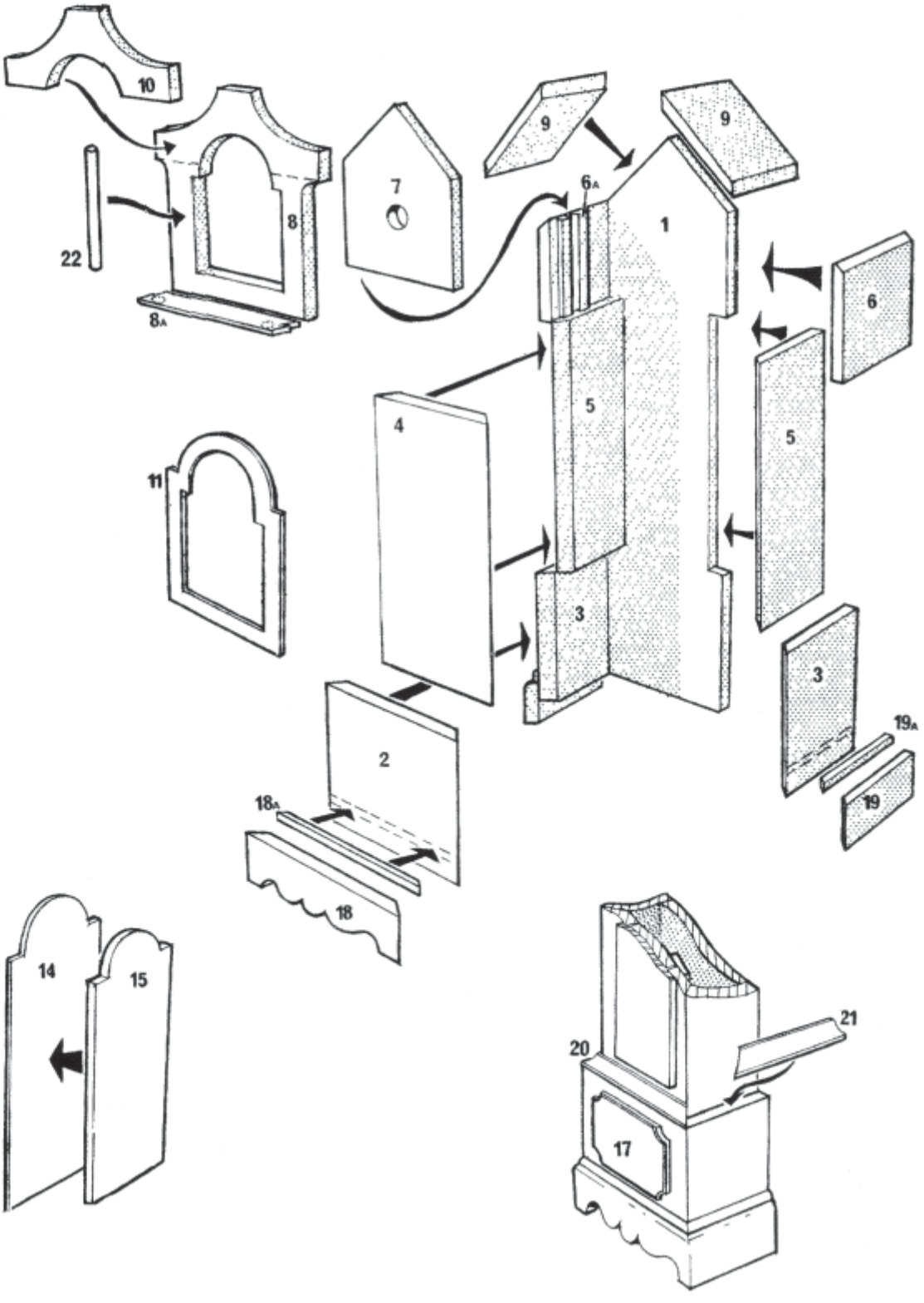
Make up two parts 9, chamfering where shown, and join together to make the roof of the clock. Do not glue this in place, if you intend to fit the clock mechanism, as it will need to be made removable, in order to extract the mechanism, for routine battery changes. Short lengths of 4 x 4 matchsticks may be used in the corners of the roof, (parts 9), in order to assist in it's location, and stop it being accidentally knocked off.

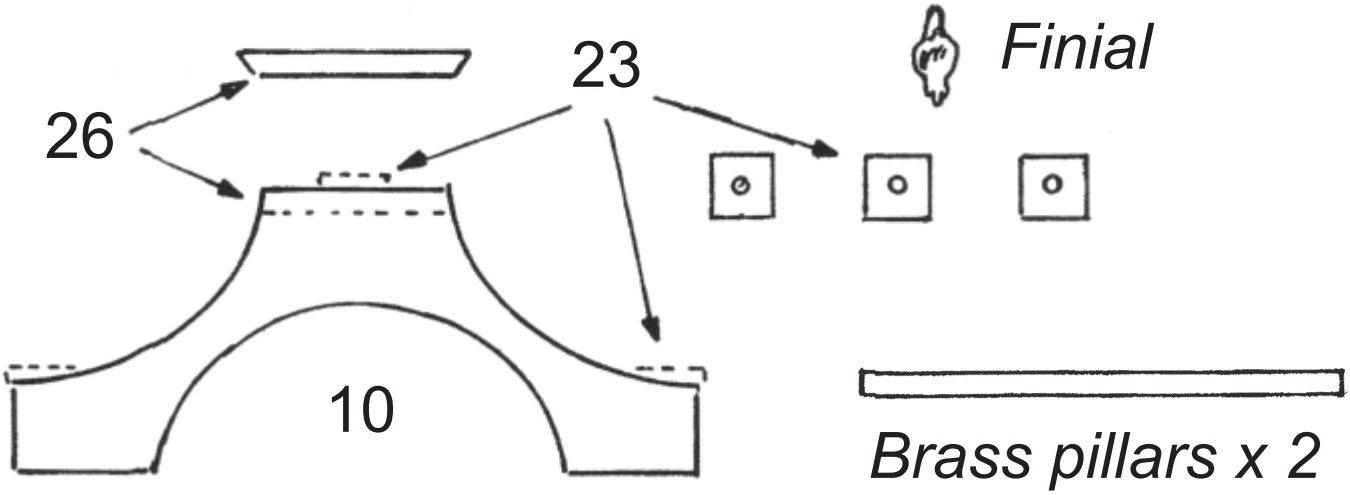
Finally, lightly sand all over, stain and varnish, to suit.
Fit the brass pillars up through the holes in part 8a, and into the recess holes in the lower side of part 10.
Fit the brass Finials, and brass knobs, where shown, and, if required, glaze the front opening in part 8 with acetate sheet.
Cut the printed, black, front face, dial, and decoration, from the plan, and paste it to the front of part 7. Alternatively, paint the front face of part 7 matt black, and add the printed paper dial, and the etched brass decoration.



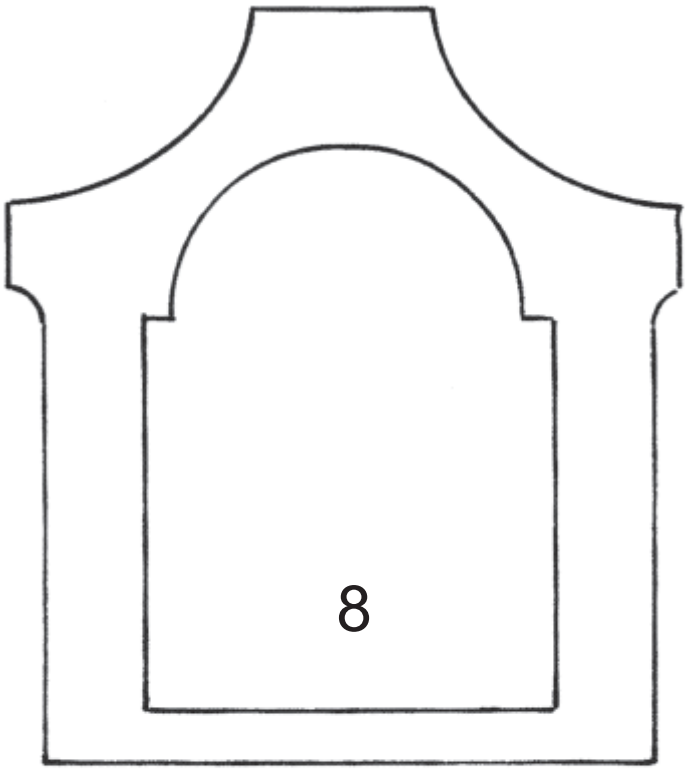
Parts List

Matchsticks (pack 2000)	Part No. HMS2
PVA Adhesive	Part No. GLU1
Clock movement	Part No. 738/10
Clock Hands	Part No. 1542/3
Battery	Part No. BATT1
Part 18a, 19a, 20 & 21 Moulding	Part No. SW9
Accessory Pack (Includes door knobs, finials, dial, brass tube and face decoration)	Part No. 1542/1

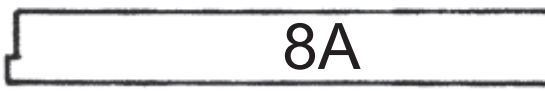


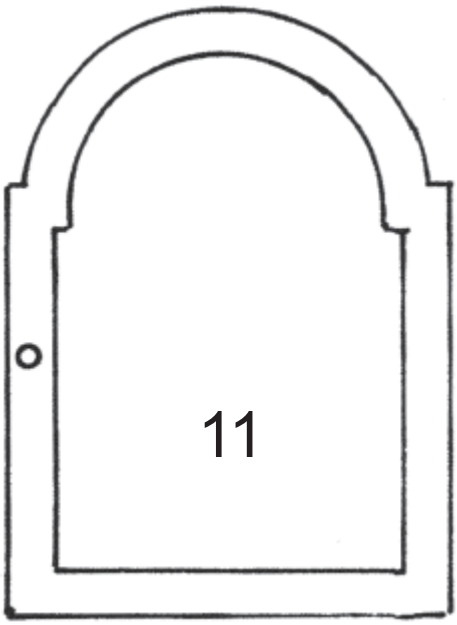


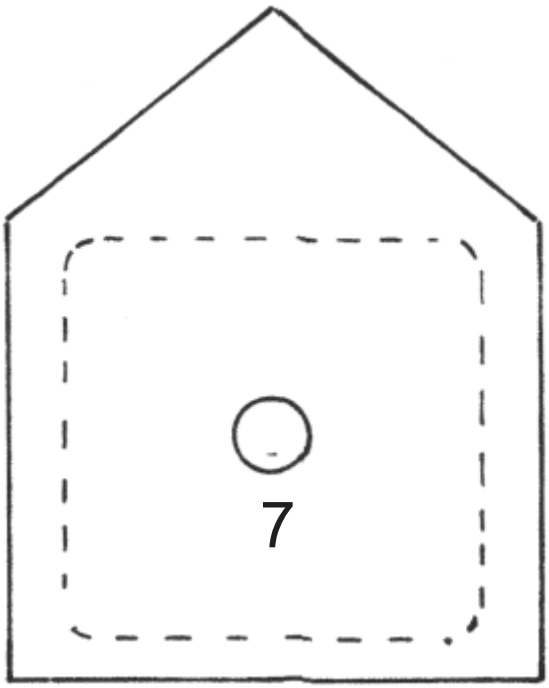
Brass pillars x 2



Fix to front of part 7







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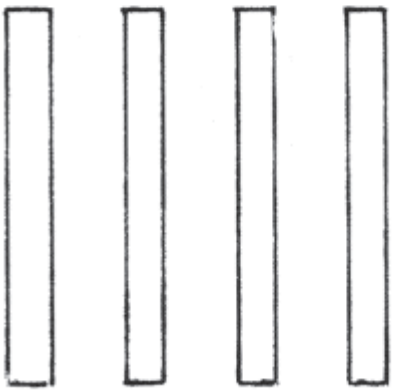

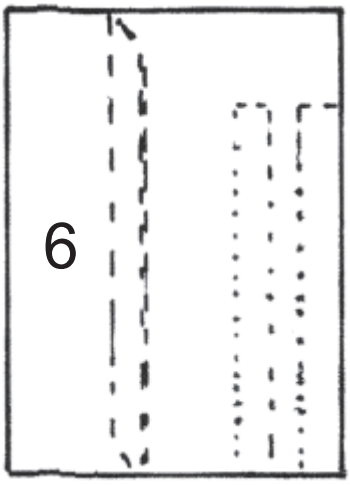

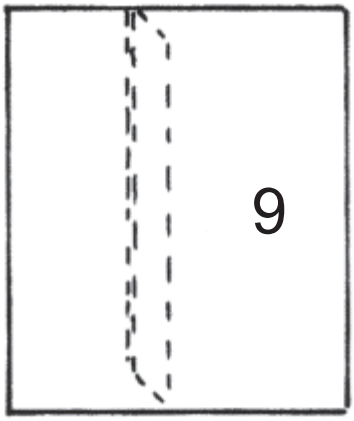

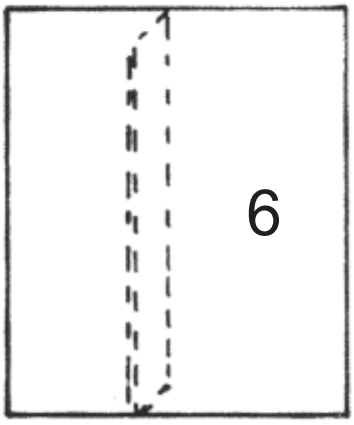

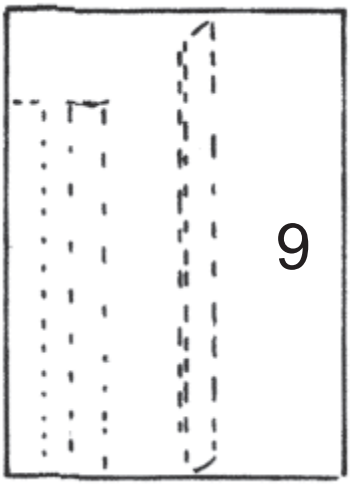

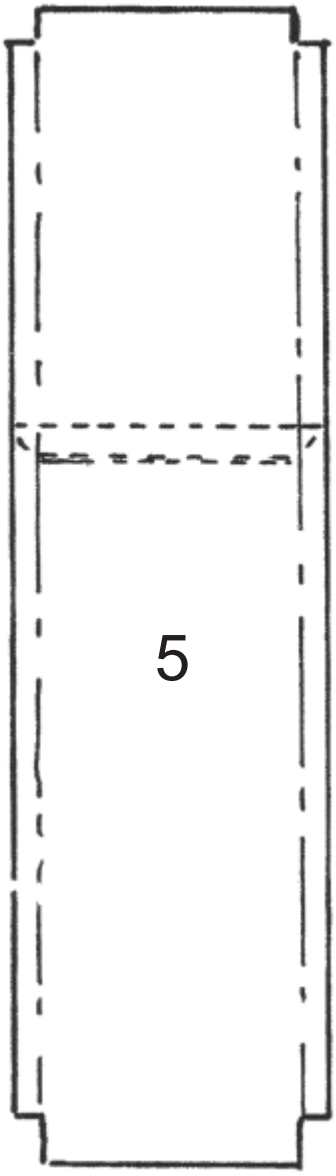

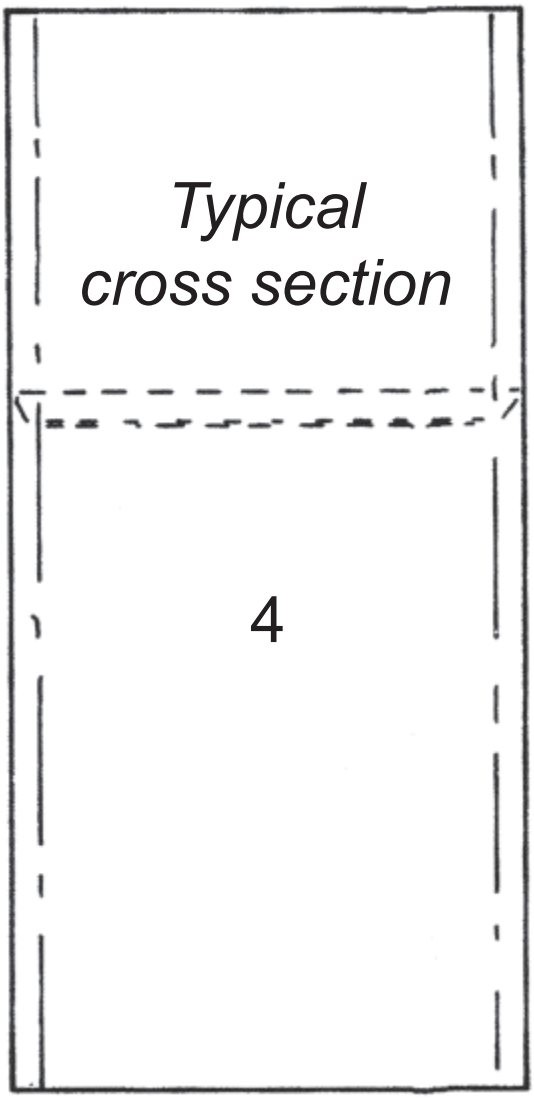

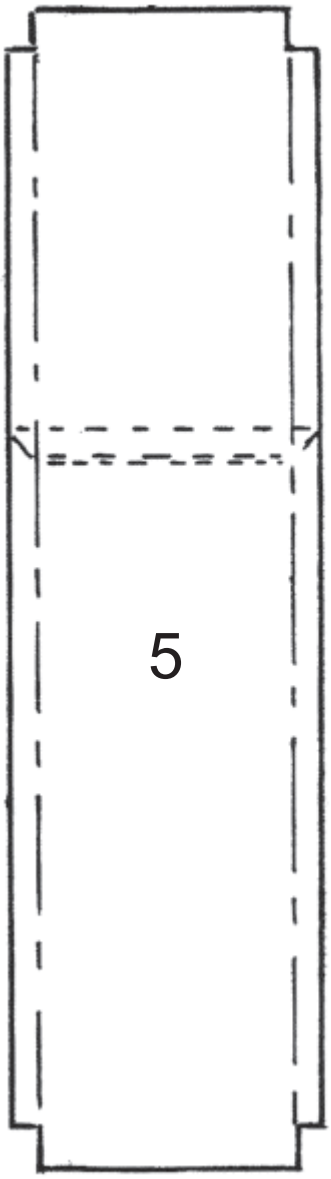

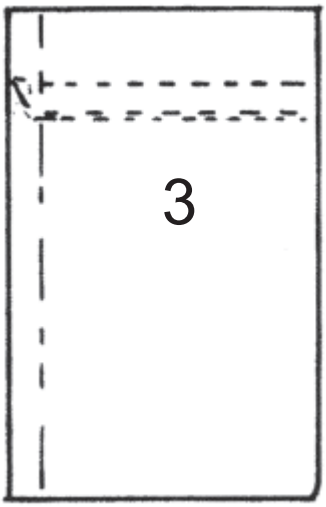

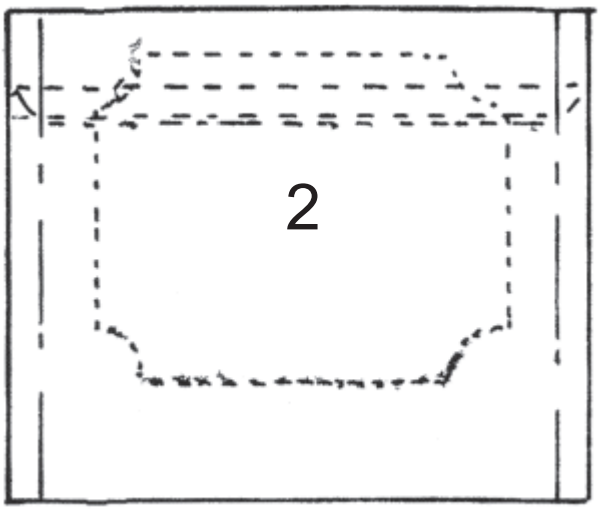

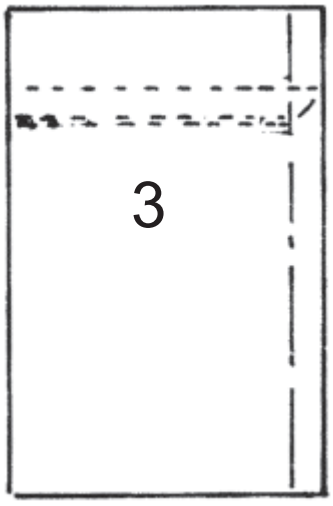

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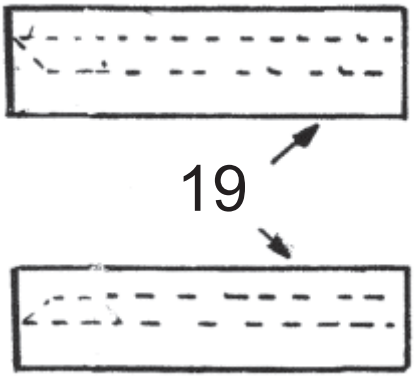
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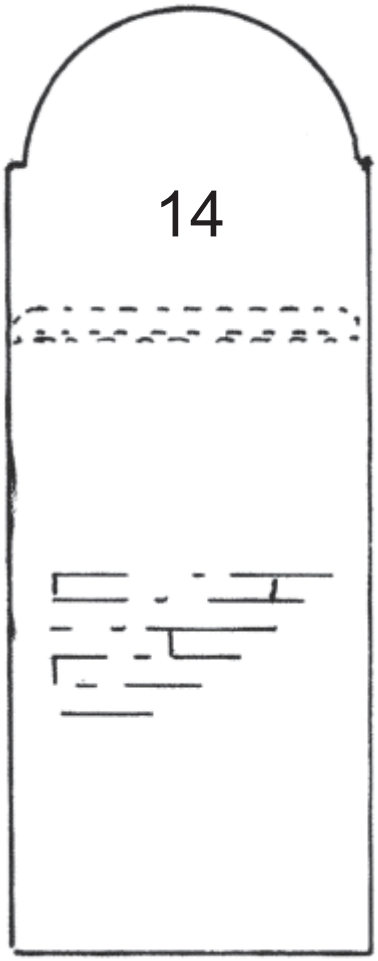
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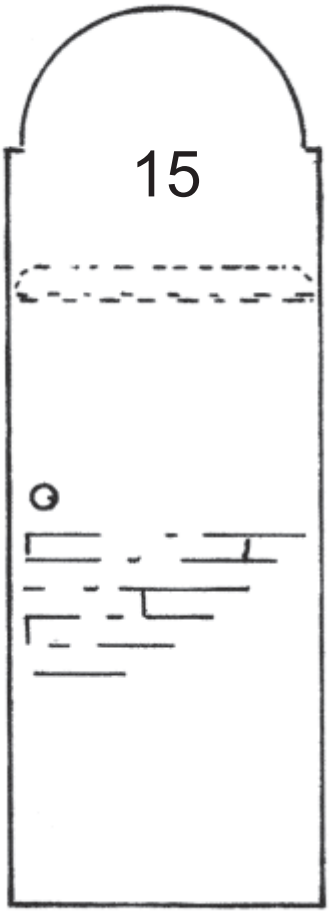
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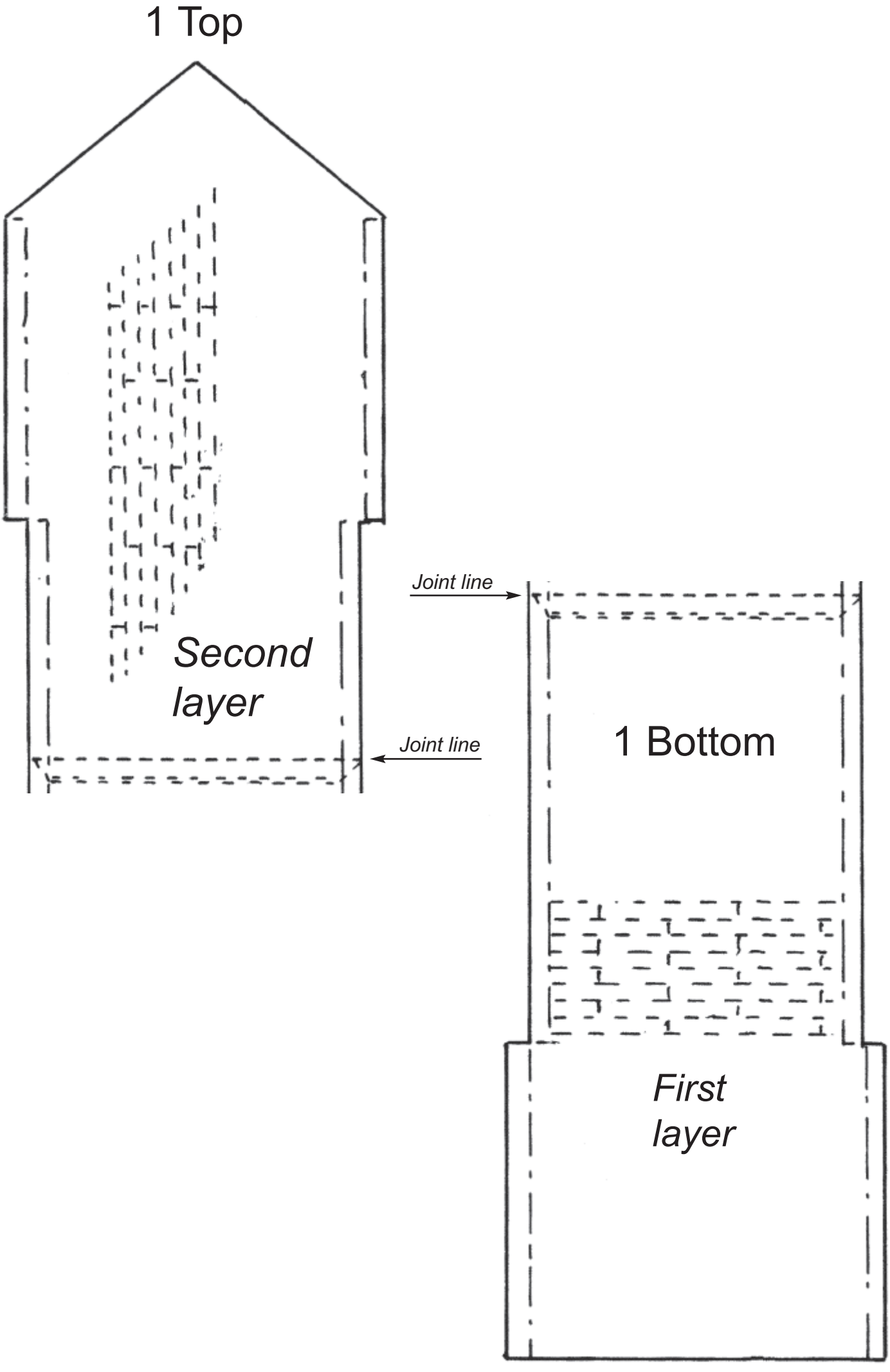
1 Top
Second layer
Joint line
Joint line
1 Bottom
First layer