

PATENT SPECIFICATION

436,637



Application Date : April 13, 1935. No. 11513/35.

Complete Specification Accepted : Oct. 15, 1935.

COMPLETE SPECIFICATION

Flower Holders and the Manufacture thereof

We, BAGLEY & COMPANY LIMITED, a company organised under the laws of Great Britain and ALBERT REYNOLDS, British subject, both of the Company's address, Wheeland Road, Knottingley, Yorkshire, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to flower holders and to the manufacture thereof.

According to the invention, a mould used in the production of a flower holder of mushroom-like shape is shaped to form the mushroom-like head and the exterior of the stem, and is provided with an outer and inner plunger working therein which cooperate with the mould to form the interior of the stem and, through the medium of a top ring associated with the outer plunger, the base of the holder. The underside of the top ring may be castellated corresponding to the desired form of the base of the holder.

In operation the requisite amount of plastic material is poured into the open mould and the inner plunger is then pressed into the mould to commence shaping whereafter the outer plunger is pressed down to finish the moulding, the top ring engaging with the top of the mould as the outer plunger starts its movement.

To facilitate moulding of the flower holder, the mushroom head thereof is formed flat in the mould, but the edges of the head may be curved either upwards or downwards, this curving being carried out if the holder be formed of thermoplastic material, by heat softening the material of which the holder is made when the holder has been withdrawn from the mould, and turning over the edges of the head to the required shape, whereafter the holder is allowed to cool and set.

The invention is illustrated in the accompanying drawings wherein figure 1 is a sectional elevation of the flower holder, figure 2 an underside plan view thereof and figure 3 a sectional elevation of the mould, the section being taken through the centre line of the mould.

Referring to the drawings, the flower holder which may be moulded of glass,

porcelain, earthenware or other plastic material, for example, synthetic resins, is in the general form of a mushroom, in the head 1 of which are provided apertures 2 for the reception of flower stems, and the stem 3 of which is flared at its lower end and castellated to provide feet 4. The notches 4' between the feet align with the apertures 2 so that the flower stems are held both by the apertures and the notches. The stem 3 is hollowed out in the form of cylindrical bore 6 having flared upper and lower ends.

The flower holder is moulded in a two piece mould 7, the pieces each having a double and a single knuckle for jointing purposes, the flanges 10, 11, forming the double knuckle and the flange 20 the single knuckle of one half 7 of the mould, whilst the flanges 10' and 11' form the double knuckle of the other half of the mould and flange 20' the single knuckle thereof.

The mould pieces are interlocked with the base by means of the flanges 19 provided on each half of the mould and for opening and closing purposes are interconnected by means of a taper pin 9 passing through the flanges 10, 11 and the flange 20' and by an eccentric lock pin 21 passing through the flange 20 and flanges 10' and 11' so that by turning a handle 22 located on the squared head 23 of the pin 21 the pieces of the mould are clamped together by reason of the eccentricity of the pin. The base 8 has projections 12 serving to form the apertures 2 in the head of the flower holder and a central boss 13 to form the flared opening to the top of the bore 6. The loose lid or top ring 14 is provided which is a tight fit on the outer plunger 16 so that it firmly closes the mould as the outer plunger starts its downward movement. A flange 15 is provided on the plunger to limit its downward movement. The outer plunger 16 is shaped at its end 17 as shown to form the lower flared end to the bore 6, and has a hollow stem in which the inner plunger 18 works loosely. Thus in operation the requisite amount of plastic material is poured into the mould, the inner plunger is then pressed down as far as possible leaving a very thin layer of glass between the end of the inner

plunger and mould bottom 13, whereafter the outer plunger is moved down over the inner plunger to finish the moulding.

5 The top ring 14 has depending lugs (the depth of which is indicated by the dotted lines 14') which form the castellations 4 on the base of the holder stem.

10 As will be seen, the holder is shaped in the mould with a flat head 1', but this may, if the holder is of thermoplastic material, be reheated after withdrawal of the holder from the mould until the material thereof becomes plastic, when it is turned over to the required shape, as for example 15 that shown in figure 1, and allowed to cool.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we 20 claim is:—

1. A mould for use in the production of a flower holder of mushroom-like shape, wherein the mould is shaped to 25 form the mushroom-like head and the exterior of the stem of the holder and is provided with an outer plunger and an inner plunger working therein which co-operate with the mould to form the interior of the stem, and through the 30 medium of a top ring associated with the outer plunger, the base of the holder.

2. A mould as claimed in claim 1 and wherein the base of the mould is provided 35 with projections which serve to form apertures in the mushroom-like head.

3. A mould as claimed in claims 1 and

2 and wherein the base of the mould has a central boss which serves to form a 40 flared opening communicating with the interior of the stem in the centre of the mushroom-like head.

4. A mould as claimed in either claim 2 or claim 3 and wherein the outer 45 plunger is formed to flare the base of the holder stem and the top ring is castellated to form alternate feet and notches in the base, the notches being aligned with the apertures in the mushroom-like head. 50

5. A flower holder of mushroom-like shape formed in a mould as claimed in any of the preceding claims.

6. A process of moulding a flower holder of mushroom-like shape wherein 55 the holder is formed in a mould as claimed in any of claims 1-4, and wherein after the holder has been removed from the mould and cooled, the head thereof is reheated and curved to any desired shape. 60

7. A mould for producing flower holders of mushroom-like shape substantially as described and as shown in figure 3 of the accompanying drawings.

8. A moulded flower holder formed in a 65 mould according to any of the preceding claims substantially as described and as illustrated in figures 1 and 2 of the accompanying drawings.

Dated the 12th day of April, 1935.

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Fig. 1.

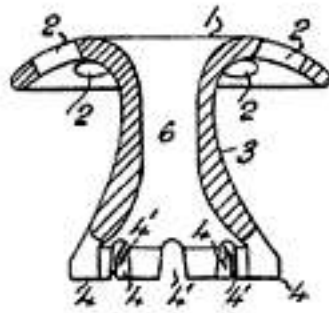


Fig. 2.

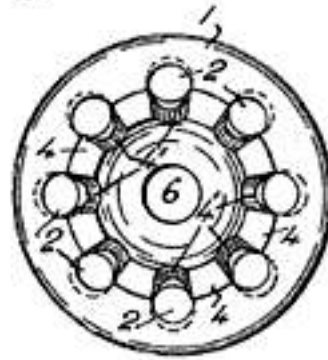
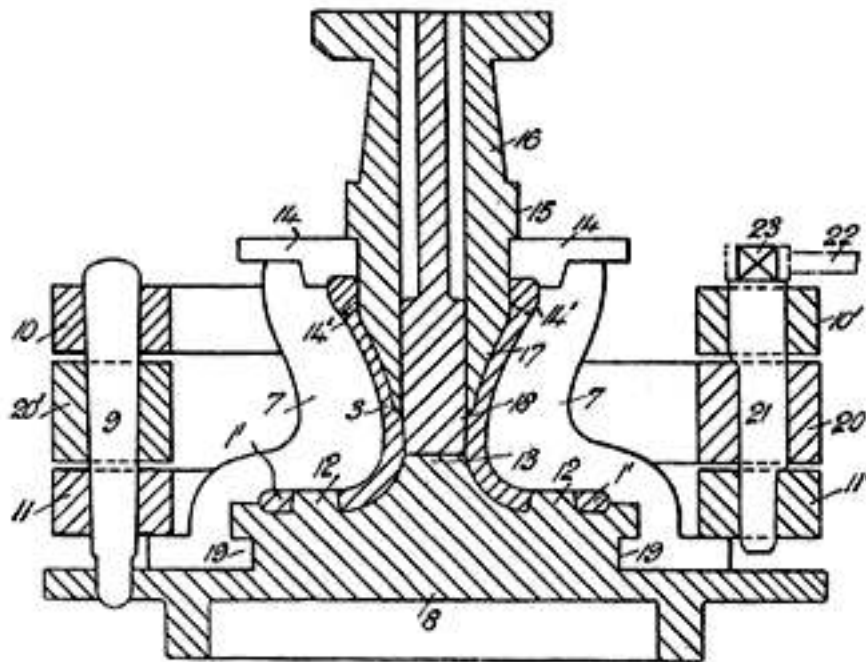


Fig. 3.



[This Drawing is a reproduction of the Original on a reduced scale.]