July 8, 1924. 1,500,747

B. H. HOWARD ET AL.

CASTING FOR FEEDERS FOR INGOT MOLDS

Filed Feb. 9, 1924

Fig. 1.

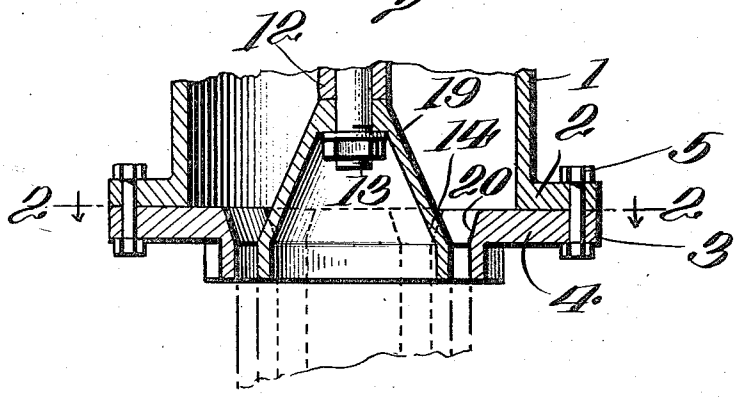


Fig. 2.

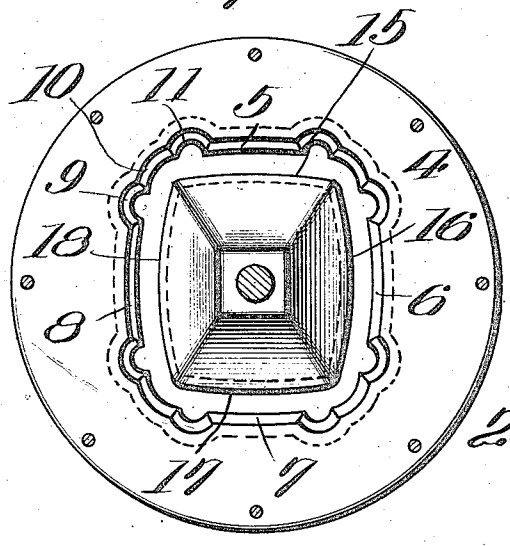
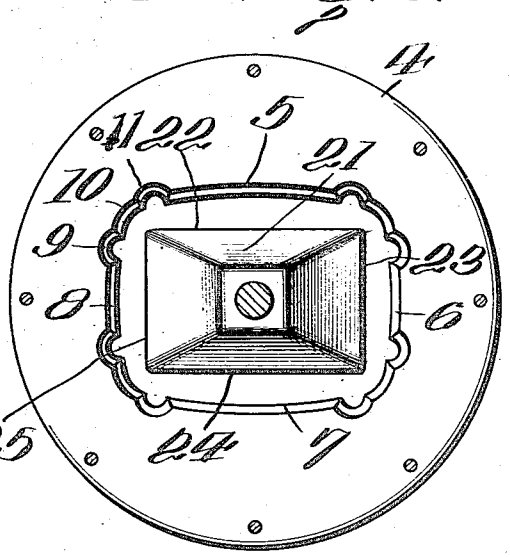


Fig. 3.



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UNITED STATES PATENT OFFICE.

BLOOMFIELD H. HOWARD, OF WASHINGTON, DISTRICT OF COLUMBIA, AND ERNEST J. TURNER, OF PITTSBURGH, PENNSYLVANIA.

CASTING FOR FEEDERS FOR INGOT MOLDS.

Application filed February 9, 1924. Serial No. 691,741.

To all whom it may concern:

Be it known that BLOOMFIELD H. HOWARD and ERNEST J. TURNER, citizens of the United States, residing, respectively, at Washington, District of Columbia, and Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Castings for Feeders for Ingot Molds, of which the following is a specification.

Our invention relates to improvements in castings for feeders for ingot molds.

The object of our invention is to provide a casting for forming ingot mold feeders of plastic material by forcing it through a passage in a casting corresponding to the form of feeder.

Another object of our invention is to provide a casting in which the outer walls are bellied outwardly to conform with the shape of the feeder and having intermediate outwardly bellied walls adapted to form integral ribs for supporting the feeder on the mold and having an inner wall of a different contour whereby a perfect feeder can be formed by forcing the plastic material under pressure between the walls of the casting.

A further object of our invention is to provide a specially shaped casting adapted to form a correspondingly shaped feeder and having certain arrangement of walls hereinafter more fully set forth.

In the accompanying drawings:—

Figure 1 is a vertical sectional view of a cylinder showing our improved casting applied thereto, partly broken away.

Figure 2 is a horizontal transverse sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a view similar to Figure 2 showing a modified form of casting.

Referring now to the drawings 1 represents the lower end of the cylinder in which the plastic material is compressed and which has an outwardly extending flange 2 to which the flange 3 of the outer member 4 of the casting is bolted by means of bolts 5. The outer member 4 of the casting is provided with four outwardly bellied walls 5, 6, 7 and 8 oppositely arranged and connected at each corner by three outwardly curved walls 9, 10 and 11. The outwardly curved walls 9 and 11 form the ribs on the outer periphery of the feeder for supporting it on the upper end of the mold. The outwardly curved portion 10 conforms with the walls 5 and 8 and forms a part of the outer wall of the feeder.

The cylinder 1 is provided with a cylindrical member 12 centrally located and to which is bolted by means of bolt 13 the inner member 14 of the casting. This member has four outwardly bellied walls 15, 16, 17 and 18 which are arranged approximately in the same arc of the circle as the walls 5, 6, 7 and 8. The inner member 14 is provided with the beveled walls 19 which correspond with the beveled wall 20 of the outer member 4 and whereby the passage has an open upper end to receive the plastic material and whereby it is compressed as it enters the lower end of the passage.

In Figure 3 we have shown the outer member 4 of the casting of the same shape and like reference numerals indicate like parts. The inner member 21 instead of having its walls bellied outwardly as shown in Figure 2 has four straight walls 22, 23, 24 and 25.

Having thus fully described our invention what we claim is:

1. A casting for ingot mold feeders comprising an outer member having outwardly bellied walls connected by curved walls arranged in a different arc of a circle, and an inner member having outwardly bellied walls corresponding with those of the outer member.

2. A casting for feeders for ingot molds comprising an outer member having outwardly bellied walls, connected by three outwardly curved walls arranged in a different arc of a circle and an inner member having outwardly bellied walls arranged in the same arc of a circle as the outwardly bellied walls of the other member.

3. A casting for ingot molds comprising an outer member having four outwardly bellied walls connected by outwardly curved

walls arranged in a different arc of a circle and an inner member having four outwardly bellied walls.

4. A casting for ingot mold feeders comprising an outer member having four outwardly bellied walls, oppositely arranged and connected by outwardly curved walls arranged in a different arc of a circle and an inner member having four oppositely arranged straight walls.

In testimony whereof we affix our signatures.

BLOOMFIELD H. HOWARD.
ERNEST J. TURNER.