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B. H. HOWARD ET AL

CASTING FOR FEEDERS FOR INGOT MOLDS

Filed Feb. 9, 1924

Fig. 1.

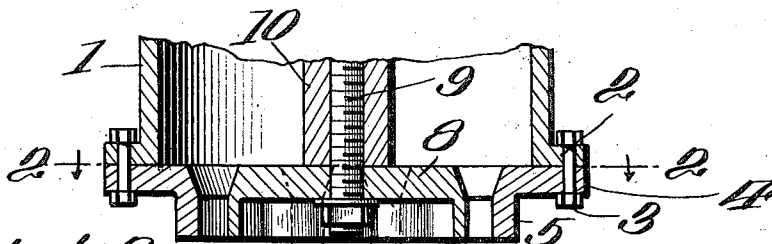


Fig. 2.

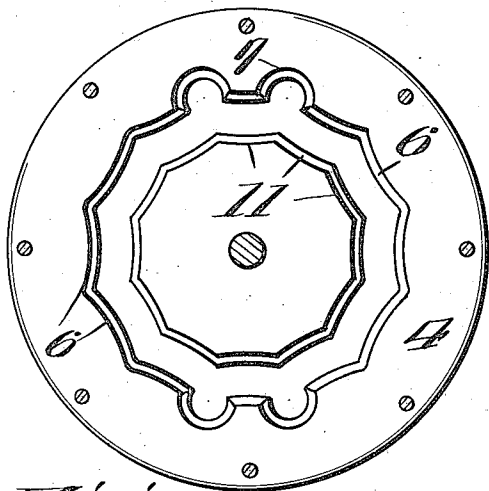


Fig. 3.

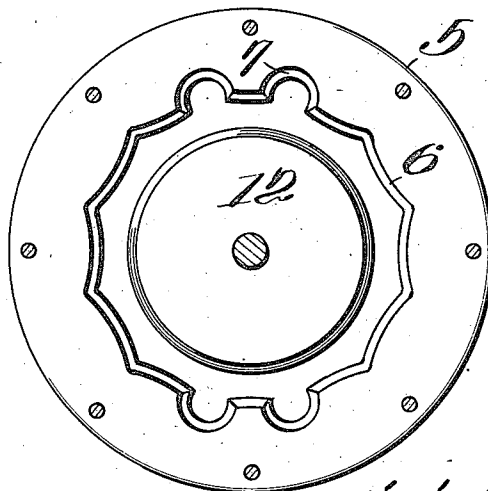


Fig. 4.

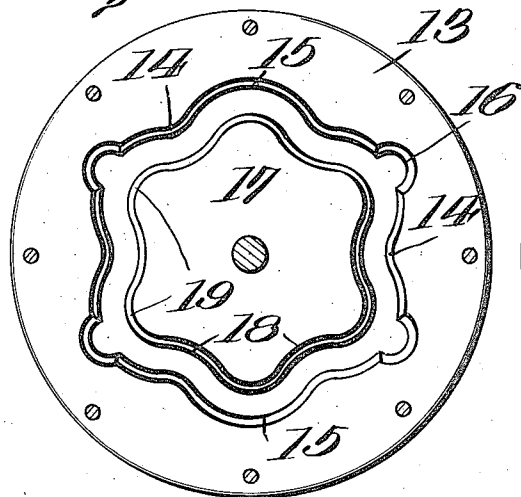
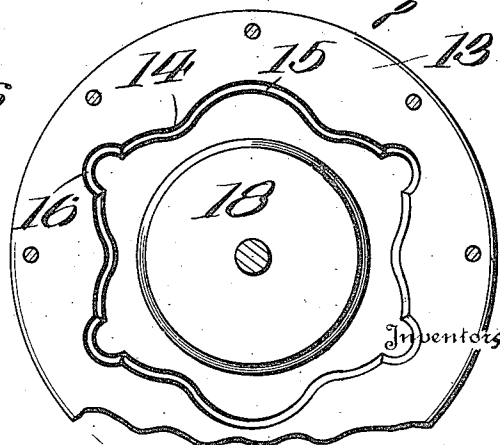


Fig. 5.



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UNITED STATES PATENT OFFICE.

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CASTING FOR FEEDERS FOR INGOT MOLDS.

Application filed February 9, 1924. Serial No. 691,743.

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 made of plastic material by forcing it through a casting having a passage therethrough and having a large number of inwardly bellied walls to form a feeder with curved walls and having outwardly curved portions forming ribs for supporting the feeder on the mold and forming a feeder corresponding in shape to an application executed of even date.

Another object of our invention is to provide a casting in which a complete corrugated ingot mold feeder is formed with integral supporting ribs on its outer periphery by forcing the plastic material through said casting by a plunger arranged above the casting within the cylinder.

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

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 circular inner member of the casting.

Figure 4 is a view similar to Figure 3 showing a slightly modified form.

Figure 5 is a view similar to Figure 4 showing a circular inner member.

Referring now to the drawings 1 represents the lower end of the cylinder having an outwardly extending flange 2 to which is bolted by means of bolts 3 the flange 4 of the outer casting member 5. This member

5 as shown is provided with a series of inwardly bellied walls 6 having arranged there around at different points a number of outwardly curved walls 7 forming ribs on the outer periphery of the feeder for supporting the feeder on the upper end of the mold. The inner member 8 of the casting is bolted by means of bolts 9 to the cylinder member 10. The member 8 is provided with a series of inwardly bellied walls 11 adapted to correspond with the bellied walls 6 of the member 5.

In the modification shown in Figure 3 the member 5 is constructed like that shown in Figure 4 and like reference numerals indicate like parts. The inner member is indicated by 12 and is of a circular contour to form a feeder with a cylindrical bore therethrough.

In Figure 4 the outer member 13 is provided with alternately arranged inwardly and outwardly bellied walls 14 and 15 connected by the outwardly curved walls 16 arranged in a different arc of a circle and forming the ribs on the outer periphery of the feeder. The inner member 17 of the casting is provided with alternately arranged inwardly and outwardly bellied walls 18 and 19.

In Figure 5 the outer member 13 is arranged exactly like that shown in Figure 4 and like reference numerals indicate like parts. In this form however the inner member of casting 18 is of a circular contour whereby a cylindrical bore is formed in the feeder.

Having thus fully described our invention what we claim is:—

1. A casting for feeders for ingot molds having a series of curved walls.

2. A casting for feeders for ingot molds having a series of curved walls arranged in different arcs of a circle.

3. A casting for feeders for ingot molds comprising an outer member having a series of inwardly bellied walls and outwardly bellied walls and an inner member having outer walls bellied inwardly.

4. A casting for feeders for ingot molds comprising an outer member having a large number of inwardly bellied walls, some of said walls connected by outwardly curved walls arranged in a different arc of a circle and an inner member having its walls bel-

lied inwardly and parallel with the inwardly bellied walls of the outer member.

5 5. A casting for ingot mold feeders comprising an outer member having a series of inwardly bellied walls, some of said walls connected by outwardly curved walls arranged in a different arc of a circle and an inner member having a circular outer wall.

10 6. A casting for ingot mold feeders comprising alternately inwardly and outwardly bellied walls, some of said walls connected by outwardly curved walls arranged in a different arc of a circle and an inner member having its outer wall alternately bellied,

inwardly and outwardly to correspond with 15 the walls of the outer member.

7. A casting for ingot mold feeders comprising an outer member having alternately inwardly and outwardly bellied walls, some of said walls connected by outwardly curved 20 walls arranged in a different arc of a circle and an inner member having a circular outer wall.

In testimony whereof we affix our signatures.

BLOOMFIELD H. HOWARD.
ERNEST J. TURNER.