C. PAQUET.

GLASS WORKING APPARATUS.

APPLICATION FILED JAN. 3, 1914.

1,136,832.

Patented Apr. 20, 1915.

3 SHEETS—SHEET 1.

Fig. 1.

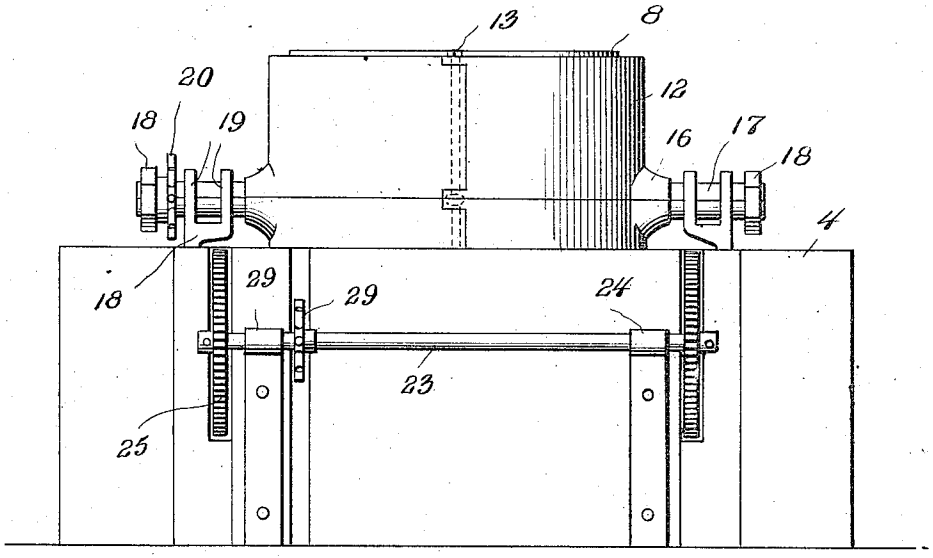
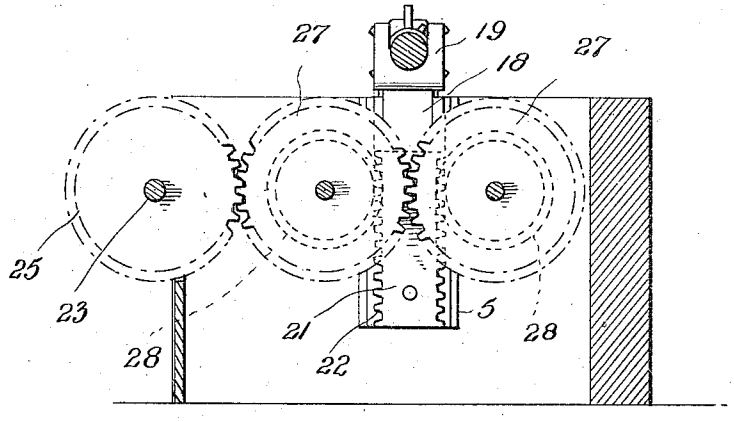


Fig. 7.



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3 SHEETS—SHEET 2.

Fig. 2.

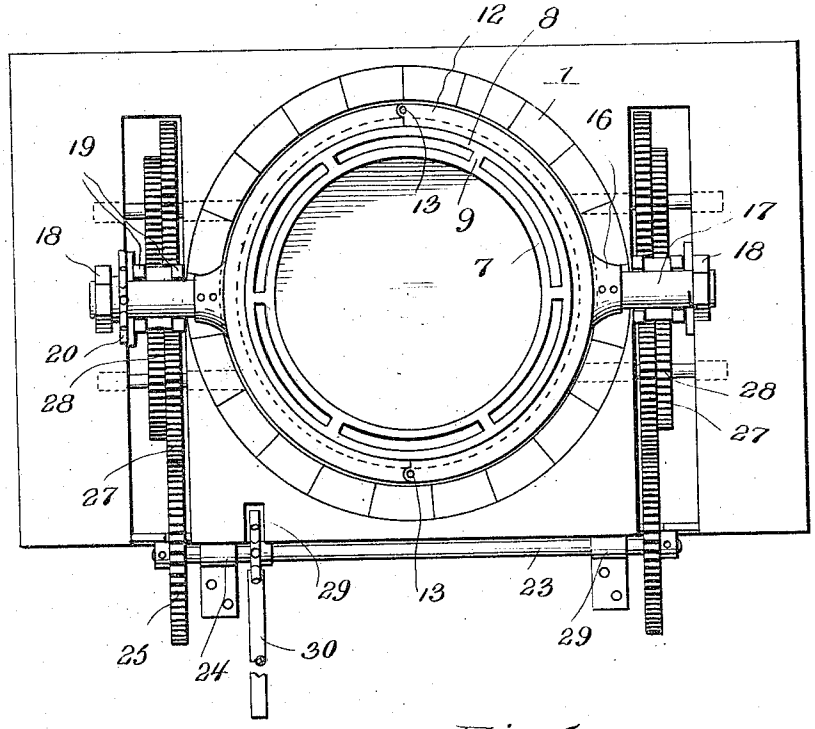


Fig. 5.

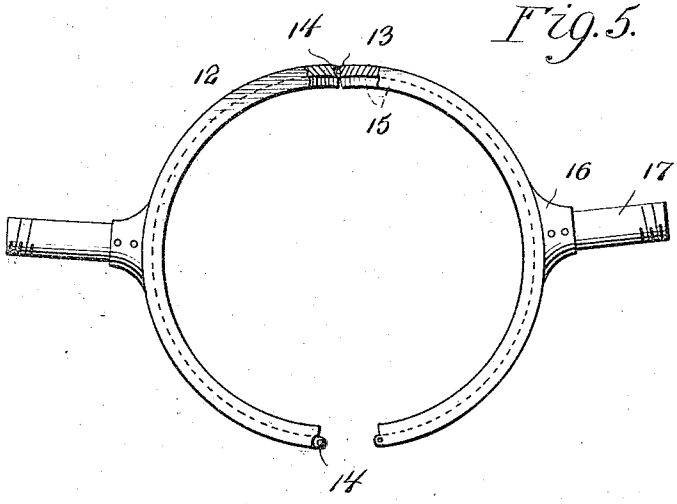
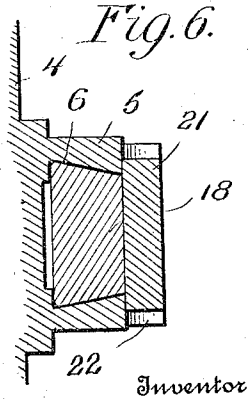


Fig. 6.



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3 SHEETS—SHEET 3.

Fig. 3.

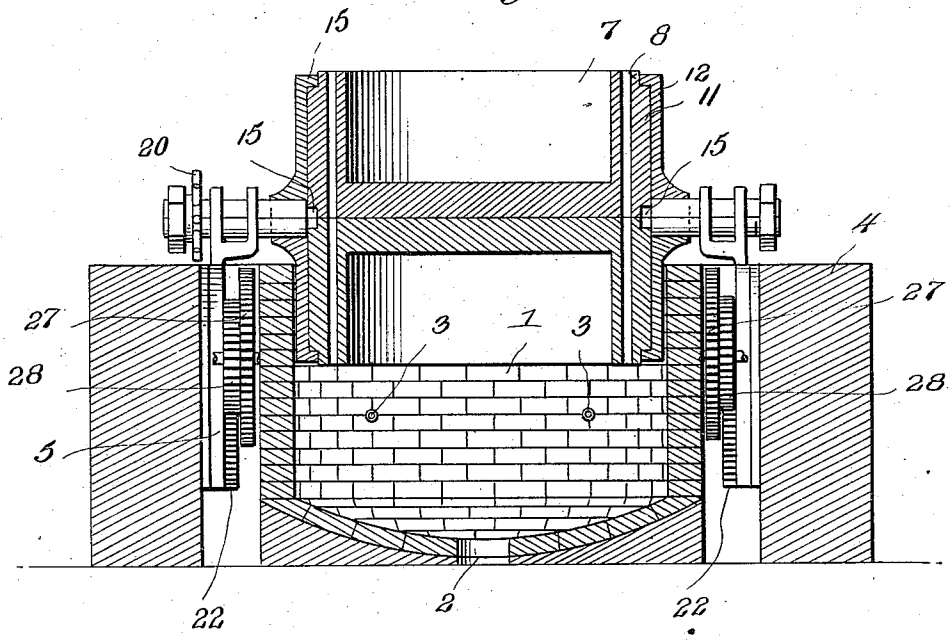
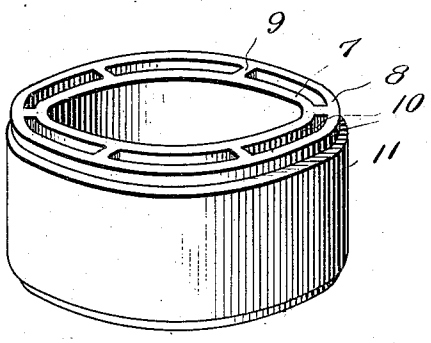


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES PAQUET, OF OKMULGEE, OKLAHOMA.

GLASS-WORKING APPARATUS.

1,136,832. Specification of Letters Patent. Patented Apr. 20, 1915.

Application filed January 3, 1914. Serial No. 810,200.

To all whom it may concern:

Be it known that I, CHARLES PAQUET, a citizen of the United States, residing at Okmulgee, in the county of Okmulgee and State of Oklahoma, have invented new and useful Improvements in Glass-Working Apparatus, of which the following is a specification.

The invention relates to an improvement in glass working apparatus, and particularly to an improved pot, means for adjusting the same, and means for heating the same.

The main object of the present invention is the provision of an improved pot for handling material for window glass blowing machines, the construction providing a pot which may be kept at uniform and proper temperature, and which may be readily and conveniently handled under any and all conditions.

The invention in the preferred form of details will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a view in elevation illustrating the improvement. Fig. 2 is a plan of the same. Fig. 3 is a vertical section of the same. Fig. 4 is a perspective of one of the pots. Fig. 5 is a perspective of one of the holding rings. Fig. 6 is an enlarged sectional view illustrating the sliding connection of the supporting blocks. Fig. 7 is a sectional view through the supporting structure illustrating the operating means for elevating the pots.

Referring particularly to the accompanying drawings, 1 represents a furnace open at the top and having a discharge opening or orifice 2 at the bottom. The furnace is preferably heated by gas or suitable fuel led in through the pipes 3. Beyond the furnace proper are arranged walls 4 formed immediately adjacent the furnace proper with spaced parallel ribs 5 having their opposing surfaces undercut to form a guideway 6.

The pot proper, which is constructed of fire clay or similar refractory material, comprises a cylindrical body 7 closed at the bottom and open at the top. Spaced from the circular wall of the body is a second wall 8, vertical ribs 9 connecting the walls and providing therebetween a space 10 for the passage of the heat. The wall 8 is provided with an annular offset 11 extending around the same and terminating inwardly beyond the respective edges of the wall, as shown. In providing the improvement, I arrange two such pots with their bottoms in contact so that the completed arrangement presents opposing pots opening in opposite directions as clearly shown in the drawings. As a means for sustaining the pots I provide holding rings 12 made up of semi-circular sections with their ends adapted for connection by means of pins 13 passing through openings 14 in the respective ends. The sections of the ring have upper and lower inwardly extending flanges 15, adapted when the ring is in place to engage over the opposite end edges of the projection 11 on the pots. Each ring section is provided with a hollow sleeve like projection 16 in which is secured a half round member 17. Two of the holding rings are used one for each pot and the half round members 17 are placed in contact and secured in such relation by nuts 18′, so that the duplicate pots are provided with opposing trunnions, as will be apparent from the drawings.

Slidably mounted in the guideways 6 on each side of the furnace are supporting blocks 18, the upper ends of which are provided with spaced U-shaped bearing sections 19. The bearing sections 19 are designed to receive the respective trunnions to rotatably support the pots, and beyond I prefer to provide each trunnion intermediate the respective bearings 19 with annular members or disks 20 by means of which the pots may be rotated in their respective bearings. The blocks 18 are provided with longitudinally extending projections 21 on opposite sides of which are arranged gear teeth 22, thereby providing each block with opposing gear racks. An operating shaft 23 is supported in bearings 24 beyond the furnace and is provided with a gear 25. Rotatably supported upon the walls 4 immediately adjacent the blocks 18 are gears 27, said gears being on opposite sides of the blocks and intermeshing beyond the face of the block. The shaft on which each gear 27 is fixed carries pinion 28, the pinions and gears rotating in unison and the pinions engaging the teeth 22 of the racks. The pinion 26 on the operating shaft 23 meshes with the adjacent gear 27, said pinion being in turn driven by the gear 25. The operating shaft 23 extends across the furnace and by a duplication of the mechanism just described simultaneously

operated both blocks 18 thereby elevating the pots above or lowering them into the furnace as may be necessary. The shaft 23 beyond the furnace is provided with a series of radiating projections 29 any one of which is adapted to receive a hollow operating rod 30 whereby the shaft may be rotated to insure its operation.

From the above construction it will be obvious that while the material of one pot is being heated in the furnace, the other pot being inverted will be open to the direct application of the heat to the material and such material therein will run from the pot and into the bottom of the furnace escaping through the aperture 2.

By reason of the mechanism described, the parts may be elevated and readily inverted for dumping purposes and the pot from which the material has just been discharged returned to the furnace in inverted condition to discharge the residue of the material therefrom.

What is claimed is:—

1. The combination with a furnace, of blocks vertically movable with relation thereto, bearings carried by the blocks, duplicate holding rings rotatably supported in the bearings, and a melting pot secured in each ring, said pots being reversed with relation to each other, each of said pots including an open ended receptacle and an outer wall surrounding the wall of the receptacle and spaced therefrom.

2. The combination with a furnace, of blocks vertically movable with relation thereto, bearings carried by the blocks, duplicate holding rings rotatably supported in the bearings, a melting pot secured in each ring, said pots being reversed with relation to each other, each of said pots including an open ended receptacle and an outer wall surrounding the wall of the receptacle and spaced therefrom, said outer wall being formed with an annular projection to cooperate with the rings.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES PAQUET.

Witnesses:
JOHN T. HALL,
CHESTER MILLSPAUGH.