(No Model.)

W. M. SHARP.

APPARATUS FOR CASTING ALUMINIUM DENTAL PLATES.

No. 502,209. Patented July 25, 1893.

Fig. 1.

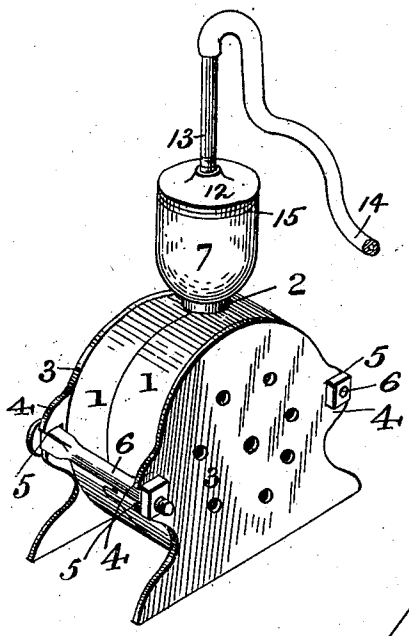


Fig. 2.

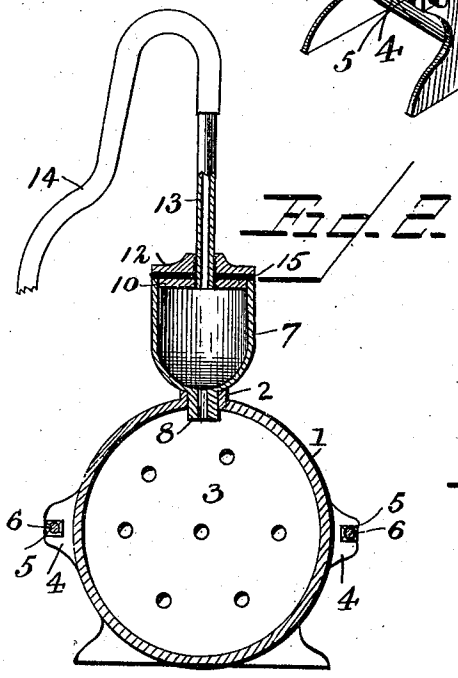
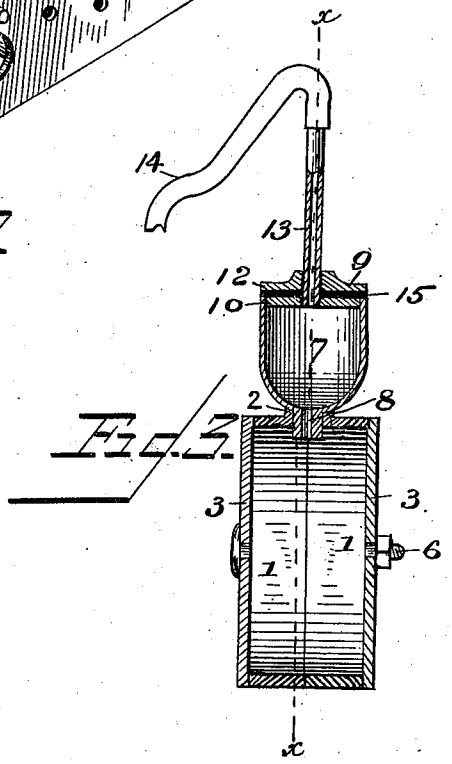


Fig. 3.



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UNITED STATES PATENT OFFICE.

WARREN M. SHARP, OF BINGHAMTON, NEW YORK.

APPARATUS FOR CASTING ALUMINIUM DENTAL PLATES.

SPECIFICATION forming part of Letters Patent No. 502,209, dated July 25, 1893.

Application filed February 10, 1893. Serial No. 461,741. (No model.)

To all whom it may concern:

Be it known that I, WARREN M. SHARP, a subject of the Queen of Great Britain, and a resident of Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Apparatus for Casting Aluminium Dental Plates; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to apparatus for casting aluminum dental plates and other small objects, and it consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawing: Figure 1 is a perspective view of a flask with my improvements applied thereto. Fig. 2 is a longitudinal section on the line *x*—*x*, Fig. 3. Fig. 3 is a view similar to Fig. 2, but taken at a right angle thereto.

In the said drawings, the reference numeral 1 designates two annular rings, one of which is provided with a hub or boss 2.

The numeral 3 designates the end plates provided with lugs 4, having recesses 5, to receive the bolts 6, by which the rings and plates are connected together. Connected and communicating with the boss 2 is a cup 7 for containing the aluminum. The lower part of this cup is provided with a tube 8, which fits into the hub or boss 2. The upper end of the cup is closed by a cap or cover 9 consisting of two metal disks 10 and 12, the disk 10 being smaller in diameter than disk 12. These disks are formed with central screw-threaded apertures to receive the correspondingly threaded end of a tube 13, the other end of which is connected with an air tube 14. Between the two disks 10 and 12 is a disk 15 of asbestus.

In practice the disk 12 is secured onto the end of tube 13 and then the asbestus disk is inserted in place, being provided with a central hole through which the said tube passes. Disk 10 is then screwed onto the tube compressing the asbestus disk between it and disk 12, so that when the cap is applied to the cup the edge of the asbestus disk will rest upon the edge of the cup and thus make a tight joint.

In using the flask the cup is filled with melted aluminum, and the cap or cover placed in position. Air is then forced through the tubes 13 and 14 which acts upon the metal in the cup and forces it out through the tube 8 into the flask. By this means the metal is condensed or compressed, rendering the articles cast of proper density.

Having thus described my invention, what I claim is—

In a flask for casting articles from aluminum, the combination with the annular rings and end plates secured together and the boss or hub formed with said rings, of the cup having a tube at its lower end communicating with the flask, the cover consisting of the two disks of different diameters with an interposed disk of asbestus, the tube to which said disks are secured, and the air tube connected therewith, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

WARREN M. SHARP.

Witnesses:

ROLLIN W. MEEKER,

WM. R. SITLER.