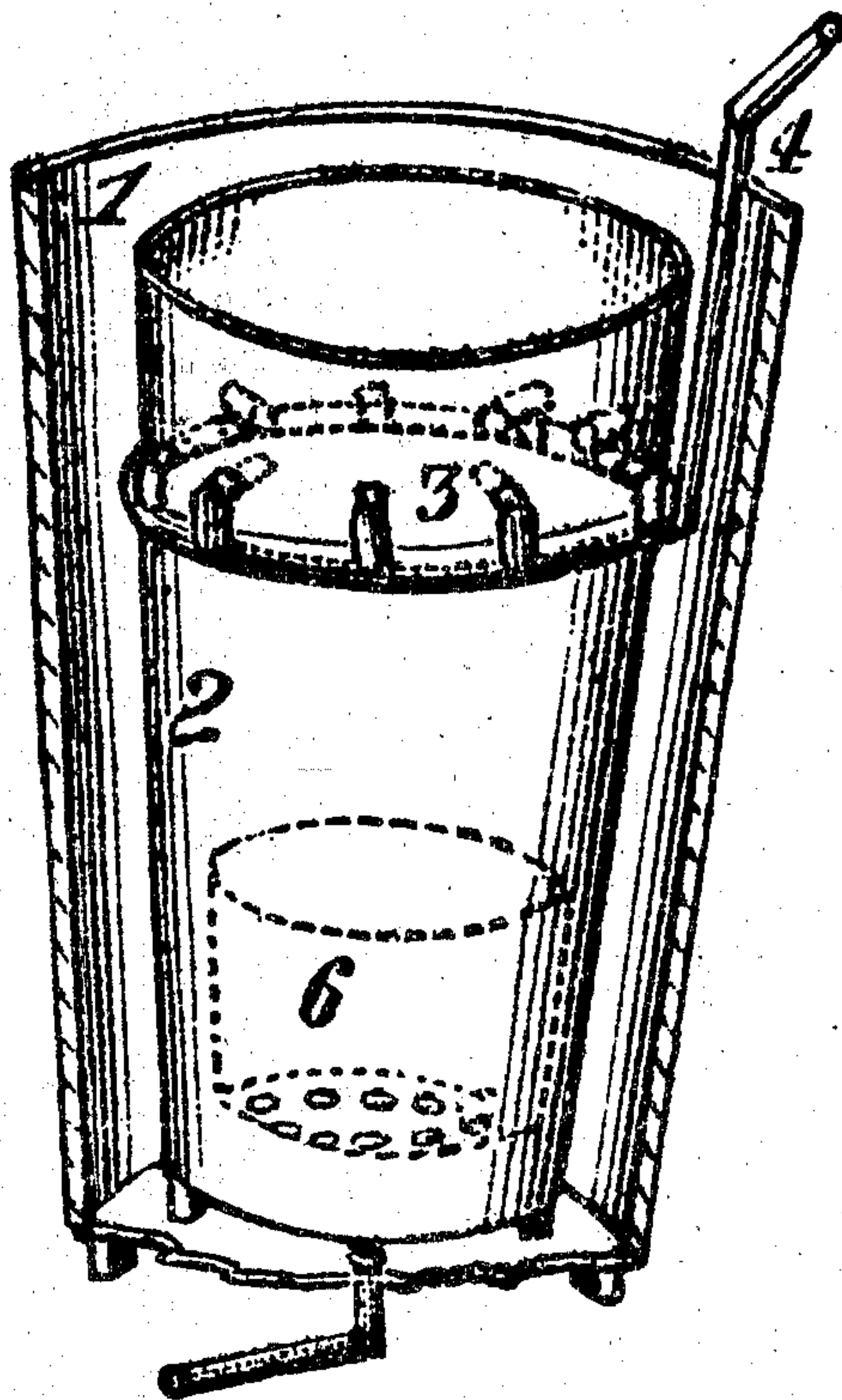


J. FEIX.
GRANULATING METALS.

No. 15,733.

PATENTED SEPT. 16, 1856.



TAKEN FROM PATENT OFFICE REPORT
1856 - VOL. III.
ONLY DRAWING ACCESSIBLE (1912)

The drawing in this patent
is not in force.

UNITED STATES PATENT OFFICE.

JOHN FEIX, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN GRANULATING METALS.

Specification forming part of Letters Patent No. 15,733, dated September 16, 1856.

To all whom it may concern :

Be it known that I, JOHN FEIX, of San Francisco, in the county of San Francisco and State of California, have invented a new and useful machine called Practical Granulator, for granulating gold, silver, copper, tin, zinc, and other metals; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is the outer kettle, made of copper, zinc, or any other suitable metal, in which is set (Fig. 2) the inner kettle, leaving space enough between these two vessels to let the stream of water overflowing from said inner and lower kettle run down freely to get a passage out through the hole in the center of the bottom of the outside vessel. This inside kettle, Fig. 2, at about two-thirds of its height is girdled by (Fig. 3) a pipe of proper dimension, keeping open passage to the hold of the vessel, Fig. 2, through a proportionate number of hollow angles or elbow-shaped tubes, and forcing the stream of cold water into the

inner kettle, where it whirls in a rotary motion, when the melted metal is to be poured in and thereby thinly granulated. Fig. 4, a tube from a water-tank or reservoir, and while the fresh water streaming down the tube by opening (Fig. 5) the stop cock. It is let out through the hole in the bottom of the outside kettle, Fig. 1. Fig. 6 is a tin or copper pan, pierced with small holes on the margin and only in the half circle of its bottom. Fig. 7 represents three handles or ears, by which the granulation after dropping into the pan, is lifted out and the remaining water strained through the little holes.

What I claim as my invention, and desire to secure by Letters Patent, is—

The use of the outer and inner vessel, 1 and 2, when constructed and operated in the manner described, in connection with the pipe 3 and its elbows, as set forth, for keeping the water in circulation and for granulating the metals

JOHN FEIX. [L. S.]

Witnesses :

ED. BENSON,
LEOPOLD KUH.