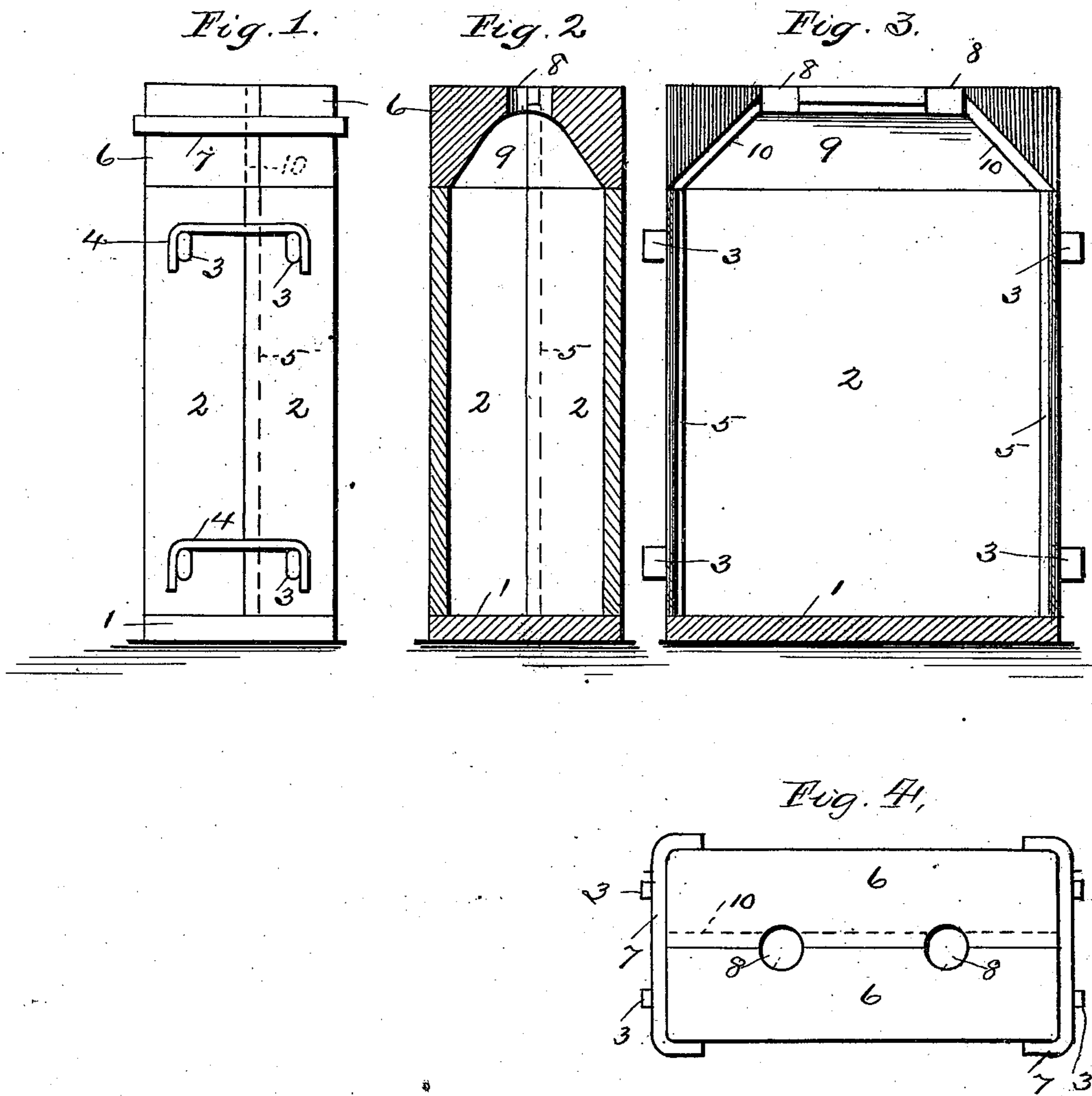


(No Model.)

L. W. MALLASEE.  
APPARATUS FOR CASTING INGOTS.

No. 504,131.

Patented Aug. 29, 1893.



Witnesses:  
H. O. Harrison  
J. A. Herrow

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att'y.

# UNITED STATES PATENT OFFICE.

LEWIS W. MALLASEE, OF PITTSBURG, PENNSYLVANIA.

## APPARATUS FOR CASTING INGOTS.

SPECIFICATION forming part of Letters Patent No. 504,131, dated August 29, 1893.

Application filed March 21, 1892. Serial No. 425,812. (No model.)

### *To all whom it may concern:*

Be it known that I, LEWIS W. MALLASEE, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in an Apparatus for Casting Ingots; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved apparatus for casting steel ingots, and consists in providing the mold with a cap or continuation of the same, whereby the "pipe" or hollow portion formed in ingots from the contraction of the metal, will be in a narrow and reduced end of the ingot, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is an end elevation of my improved ingot mold for forming ingots in accordance with my improved method. Fig. 2 is a transverse sectional elevation of the same. Fig. 3 is a side elevation of the mold, one half being removed to show the interior of the same. Fig. 4 is a plan view of the mold.

To construct an ingot-mold for forming ingots in accordance with my invention I provide an oblong base plate 1, of a suitable size, on which the mold is placed. This mold consists of two half sections 2, each of which is provided with integral lugs 3, arranged near the top and bottom of the same, for the purpose of attaching the two sections 2, together, by means of suitably formed clamps 4. The joint or parting between these two sections 2 consists of a groove 5 formed in one of the sections, and a corresponding

tongue 10 or projecting portion of the other, which will prevent a direct opening through the sides of the mold, and thereby better confine the metal therein. Placed on the top of this mold is a sectional cap 6, the parts of which are held rigidly together by clamps, 7, and the two sections joined together in the same manner as the mold. This cap 6 is constructed with an interior conical shaped chamber 9, and two circular openings 8 through which the metal is poured into the mold. This chamber 9 when filled with molten metal will act as a sinker, or feeder, to the metal within the mold 2, and when the ingot thus formed is cold, the "pipe" or hollow in the ingot will be in the contracted or reduced top 9, which when the ingot is hammered or rolled may be removed.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

A mold for casting ingots, consisting of a base portion constructed of two sections, the meeting edges of which are provided the one with a groove and the other with a tongue for engaging the groove a sectional cap adapted to rest upon the base-portion, the meeting edges of which are provided the one with a tongue and the other with a groove, and having an interior conical-shaped cavity provided with openings, exterior lugs carried by the base-portion and the cap, and clamps for engaging the said lugs, substantially as described.

In testimony that I claim the foregoing I hereunto affix my signature this 25th day of February, A. D. 1892.

LEWIS W. MALLASEE. [L. S.]

In presence of—

M. E. HARRISON,  
J. A. HERRON.