

A. SCHOENBERG.  
MOLD FOR CASTING METALS.

No. 101,318.

Patented Mar. 29, 1870.

Fig. 1.

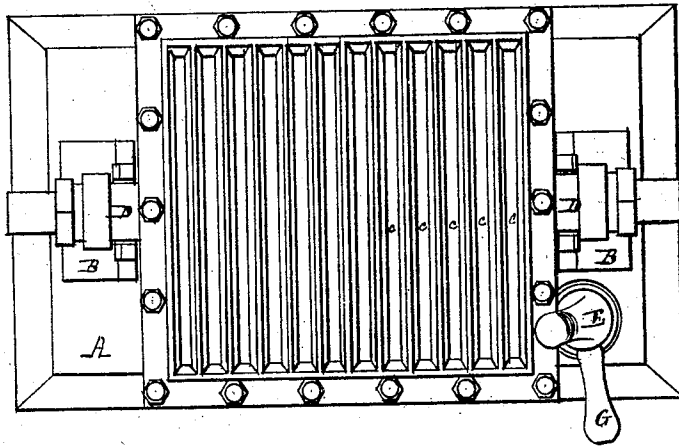


Fig. 2.

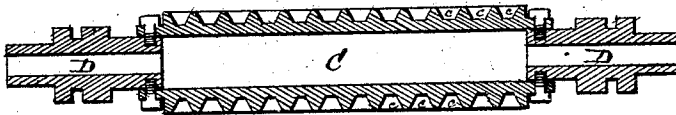
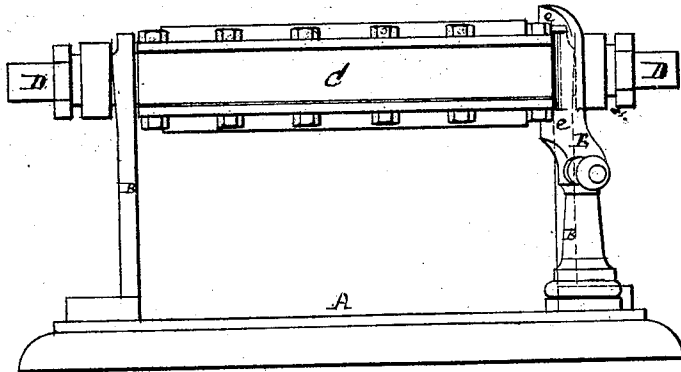


Fig. 3.



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Letters Patent No. 101,318, dated March 29, 1870.

## IMPROVEMENT IN MOLDS FOR CASTING SOLDER, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ABRAHAM SCHOENBERG, of the city, county, and State of New York, have invented, made, and applied to use a new and useful Mold for casting Solder, Type-metal, Bar and Pig-lead, and soft metallic compositions in general; and that the following is a full, clear, and correct description of the same, reference being had to the accompanying drawings making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a top view of my invention.

Figure 2 is a cut section of the mold.

Figure 3 is an end view of the same.

In the drawings like parts of the invention are pointed out by the same letters of reference.

The nature of the present invention consists in the construction, as more fully hereinafter set forth, of an improved mold for casting soft metallic composition generally, the object of the invention being to facilitate the casting of the same.

To enable those skilled in the arts to make and use my invention, the following description will be found sufficient.

A shows a base provided with the slotted standards B, intended to support the mold C.

C shows the mold employed by me, which is a double or reversible mold, made hollow, and divided on both sides into a series of chambers, *c*, into which the metal to be cast is poured.

The partitions which divide the mold into chambers can be made removable if desired, so that any form of bars or pigs can be cast in the mold. The mold has secured in its sides, about centrally, the hollow journals D, by which it is supported in the slotted standards B.

These journals D are made hollow, that cold air or water may be introduced into and pass through the mould for the purpose of cooling rapidly the metal poured into the chambers *c*.

E shows an upright, swiveled to the base A, so that it may be turned away from or toward the mould C, by means of the handle G, and having upon it the projections *e*, between which the mold is secured when in use.

Such being the construction, the operation may be thus described:

The mold having been turned into a horizontal position is secured in such position by turning the upright E, so that the mold is held between the projections *e* upon the same.

Connection is established between the mold and a water or air supply, which cold water or air is introduced into the mold through one of the hollow journals D, passes through the mold and out of it, so that a constant circulation of cold air or water is kept up in the mold during the operation of casting.

The metal to be cast into bars or pigs is poured into the chambers *c*, and is almost instantly cooled by the circulation of cold air or water through the mold, as already described.

As soon as the metal has cooled, the swiveled upright may be turned away from contact with the mold C, and the same will be thrown down, emptying itself, and presenting a second mold on the reverse side ready to receive the molten metal, when the operation first described may be repeated.

The advantages attending the use of my mold are as follows:

The metal is always kept in the same state, which is of importance in compositions; the mode of casting is greatly facilitated, and the cost reduced, and as the atmosphere has little opportunity of acting upon the metals, owing to the rapidity attending their cooling, a more thorough incorporation of the metals constituting the composition metals is possible, and the mold supplies itself readily, which is of great advantage, and a saving of time, labor, and expense. The danger which frequently attends the old mode of casting metals is obviated in the present mold.

Having thus described my invention, what I claim as new is—

1. The reversible mold provided with the hollow journals, and supported by the slotted standards when the same shall be constructed and operate substantially as and for the purpose specified.

2. In combination with the same the swiveled upright E, constructed and operating as described for the purpose set forth.

ABRAHAM SCHOENBERG.

Witnesses:

A. SIDNEY DOANE,  
H. W. HENLEY.