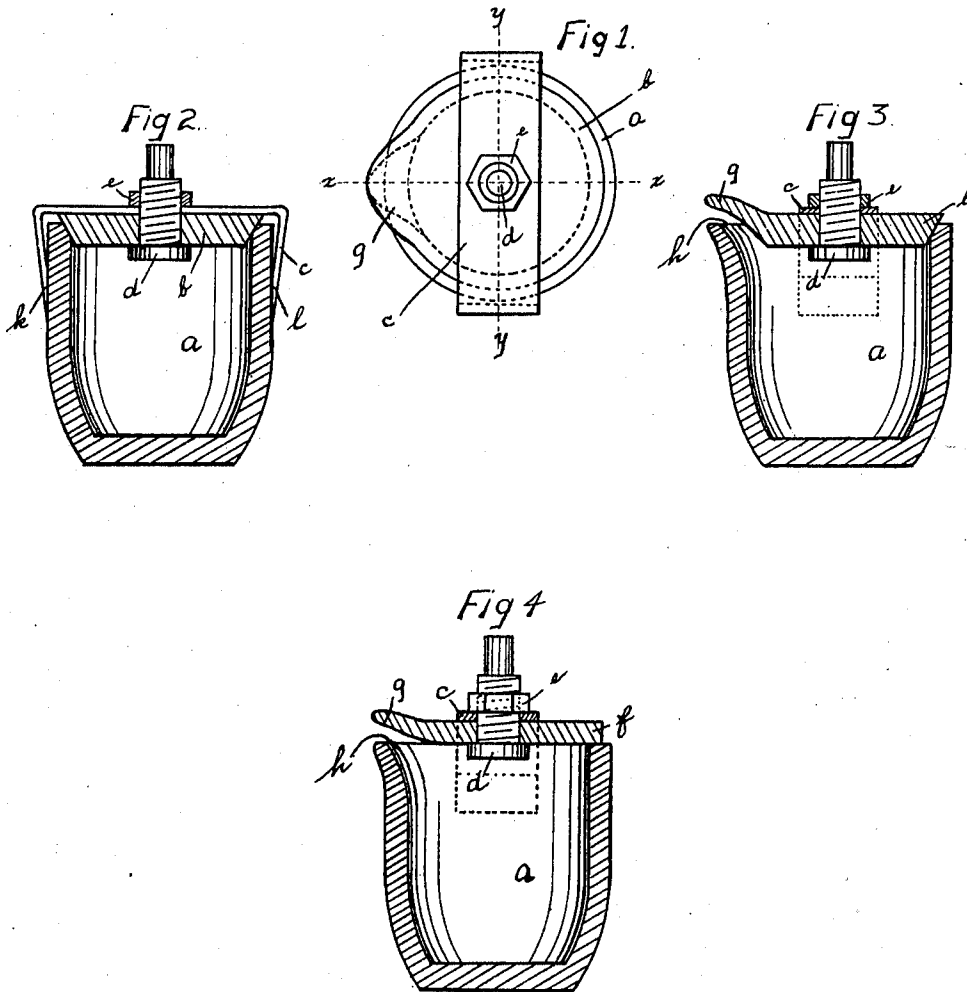


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CRUCIBLE COVER.
APPLICATION FILED FEB. 4, 1908.

982,437.

Patented Jan. 24, 1911.



Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS McGRATH, OF NEW BRITAIN, CONNECTICUT.

CRUCIBLE-COVER.

982,437.

Specification of Letters Patent.

Patented Jan. 24, 1911.

Application filed February 4, 1908. Serial No. 414,250.

To all whom it may concern:

Be it known that I, THOMAS McGRATH, a citizen of the United States, residing at No. 60 Columbia street, New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Crucible-Covers, of which the following is a specification.

My invention relates to improvements in crucibles for melting metal, brass and other alloys of metal; and the object of my improvements is to provide a cover, which is separate from the crucible, which may be placed thereon when the metal is to be poured, and which, when so placed will remain in position until the operator sees fit to remove it.

In the accompanying drawings, Figure 1 is a plan view of my crucible cover as placed upon a crucible. Fig. 2 is a vertical section of the same on line $y-y$ of Fig. 1. Fig. 3 is a vertical section of the same on line $x-x$ of Fig. 1. Fig. 4 is a slight modification of the crucible cover as placed on the crucible.

a , designates the crucible; b , the cover; c , k , and l , the spring; d , the bolt; e , the nut; said bolt d , and nut e , firmly binding the cover b , and the spring c , k , and l , together; f in Fig. 4, a slight modification of the cover b , g , the inverted cover spout; and h , the crucible spout.

When the cover is to be used it is placed on the crucible a , with the inverted cover spout g , directly over the crucible spout h , as shown in Figs. 3 and 4, or if a smaller flow of metal is desirable, then the cover spout g , may be shifted to the right of, or left of the crucible spout h , until the desired flow is procured.

The cover b , is securely held in place on

the crucible a , by the spring c , which adheres to the outside of the crucible a , as shown in Fig. 2, at k , and l .

In Fig. 4 the cover is slightly different in that it rests on the top of crucible a , instead of partially entering crucible a , as shown in Figs. 2 and 3.

The covers b , in Figs. 1, 2 and 3, and f , in Fig. 4, may be made of the same material as the crucible or any other substance which will successfully resist the heat of the metal.

The cover is removed and the metal is melted in the ordinary way. When ready to pour, the cover is placed on the crucible as shown in the drawings, and held there by the spring c , at its extremities k , and l . The cover keeps the metal from rapidly cooling or oxidizing and prevents the escape of noxious gases.

The use of this cap results in better and more uniform castings, makes a great saving in metal, saves the labor of skimming or removing the dross prior to pouring the metal, and saves the service of an extra man with a skimmer, tongs or other implement or implements necessary to hold other covers in place while the metal is being poured by the molder.

I am aware that a prior patent shows and describes a crucible cover with a guard extending downward into the crucible. Such a cover is hereby disclaimed.

I claim as my invention:

A crucible cover having an inverted spout at the edge thereof and an attached spring clamp of such shape as to engage the sides of a crucible.

THOMAS McGRATH.

Witnesses:

WILLIAM J. SHANLEY,
EDWARD L. ROCHFORD.