

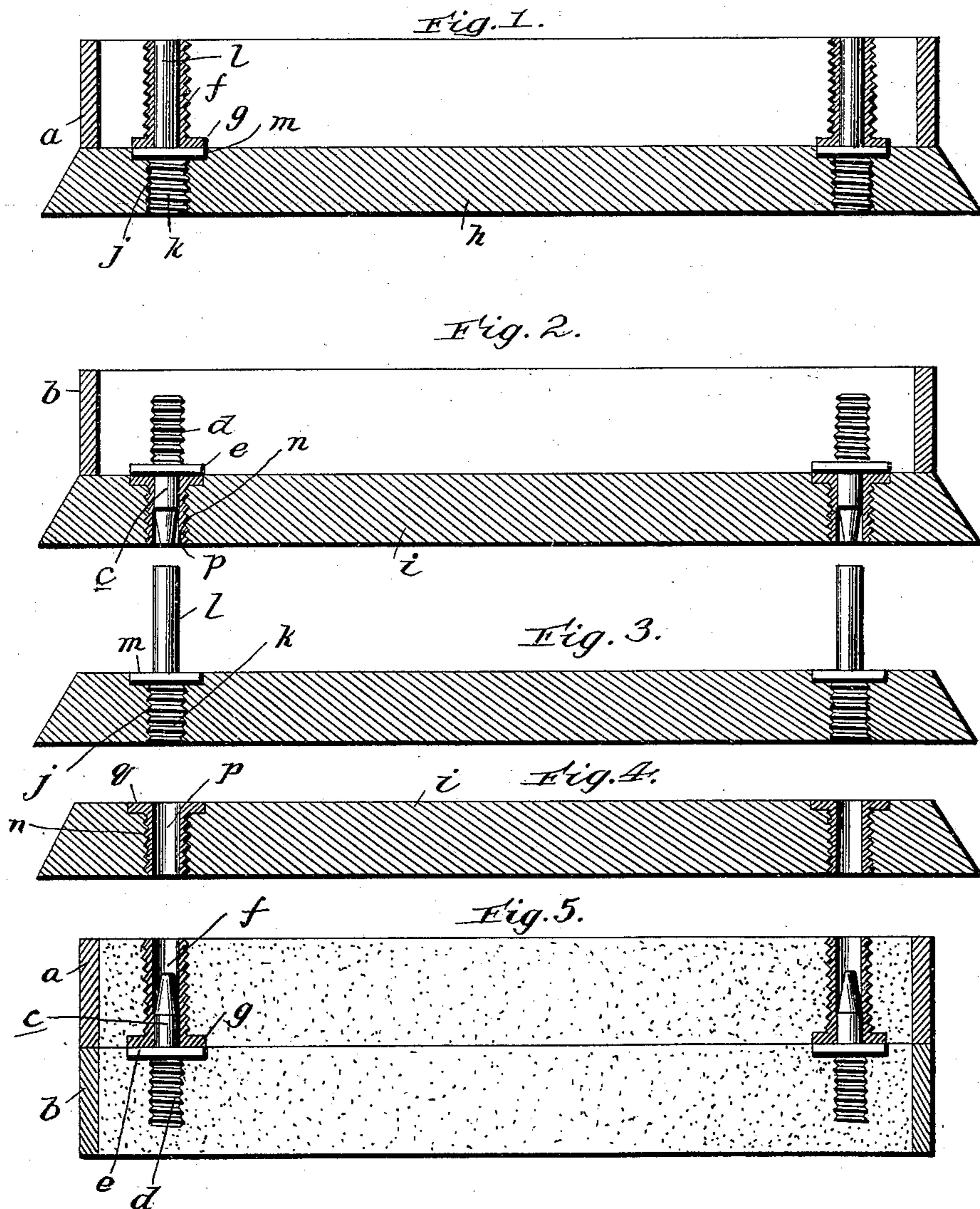
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Patented July 11, 1899.

O. EISELE.
MOLD AND MOLD APPARATUS.

(Application filed Feb. 2, 1899.)

(No Model.)



witnesses:

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UNITED STATES PATENT OFFICE.

OTHMAR EISELE, OF VIENNA, AUSTRIA-HUNGARY.

MOLD AND MOLD APPARATUS.

SPECIFICATION forming part of Letters Patent No. 628,578, dated July 11, 1899.

Application filed February 2, 1899. Serial No. 704,288. (No model.)

To all whom it may concern:

Be it known that I, OTHMAR EISELE, a subject of the Emperor of Austria-Hungary, residing at Vienna, in the Empire of Austria-Hungary, have invented new and useful Improvements in Molds and Mold Apparatus, of which the following is a specification.

My invention relates to molds for casting molten metals and apparatus for assisting in the making of the molds; and it consists in the peculiar and advantageous construction hereinafter described, and particularly pointed out in the claims appended.

In the accompanying drawings, Figure 1 is a sectional view illustrating in their proper positions the parts employed in making the upper member of the mold. Fig. 2 is a sectional view illustrating in their proper positions the parts employed in making the lower member of the mold. Figs. 3 and 4 are sections of the bases used in the making of the upper and lower members, respectively, of the mold. Fig. 5 is a sectional view of a mold embodying my invention.

In the said drawings similar letters designate corresponding parts in all of the several views.

My improved mold embraces the usual upper and lower flask-frames *a b*, which contain sand or other suitable molding material, pins *c* projecting above the upper surface of the sand in the lower frame and each having a shank *d*, ribbed throughout its length and embedded in said sand, and a flange *e*, arranged flush with the surface of the sand, and sockets *f*, exteriorly ribbed throughout their length and embedded in the sand in the upper frame and having flanges *g* at their lower ends arranged flush with the lower surface of said sand. The exterior ribbed surfaces of the sockets *f* and the ribbed shanks *d* of the pins serve, when the sand is rammed or pressed in the frames *a b*, to take hold of the sand throughout the length of the sockets and shanks, and thereby prevent casual displacement of said sockets and pins incident to the setting of the two parts of the mold. The sockets *f* and pins *c* are so placed by means presently described that when the flask-frame *a* is placed on the frame *b* the sockets will receive the pins, and said sockets and pins will serve

in conjunction to insure the correct position of the upper and lower frames and prevent casual displacement of the same. The flanges *e* on pins *c* and the flanges *g* of the sockets *f* form broad bearings and at the same time lessen the liability of sand getting on the pins and in the sockets and preventing a perfect fit of the upper frame on the lower one.

In making my improved mold I employ, in conjunction with the frame *a*, a base *h* and in conjunction with the frame *b* a base *i*. The base *h* is preferably of wood and at its upper surface is of a shape and size conforming to the exterior of the frame *a*. It is provided at the points shown with threaded sockets *j*, into which are screwed the threaded shanks *k* of pins *l*, which have flanges *m* arranged flush with the upper face and the base and are designed to take into the sockets *f* and hold the same in proper position with respect to the frame *a* while the sand is being packed in said frame. The pins *l* are of a shape and size to snugly and fully occupy the sockets *f*, and consequently they are enabled to prevent the sand gaining access to the interior of the sockets incident to the packing of the sand in the frame *a*. The base *i*, which is also preferably of wood, has its upper surface of a shape and size in outline conforming to the exterior of the flask-frame *b* and is provided at proper points with threaded sockets *n*, into which are screwed exteriorly-threaded metallic sockets *p*, having flanges *q* arranged flush with the surface of the base, as shown. These sockets *p* are designed to receive the pins *c* and hold them in proper position during the packing of sand in the lower frame *b* when the parts are in the position shown in Fig. 2.

In making my improved mold the base *h*, frame *a*, and sockets *f* are arranged as shown in Fig. 1, and the base *i*, frame *b*, and pins *c* are arranged as shown in Fig. 2. The said frames *a b* are then packed with sand, after which they may be lifted with their contents and superposed, after the manner shown in Fig. 5.

The flanges on the pins and sockets of my improved mold afford broad bearings when the members of the mold are superposed, and they also serve to form broad bearings while the mold members are being made and at the

same time to lessen the liability of sand getting in the sockets or on the pins of the mold members.

Having thus described my invention, what I claim is—

1. A mold comprising superposed flask-frames containing sand, a socket ribbed throughout its length and embedded in the sand in one frame and having its inner end arranged flush with the inner surface of the sand, and a pin projecting from the sand in the other flask-frame and having a shank ribbed throughout its length and embedded in said sand; said pin extending into the socket, substantially as specified.

2. A mold comprising superposed flask-frames containing sand, exteriorly-ribbed sockets embedded in the sand in one frame and having their inner ends flanged and arranged flush with the sand, and pins projecting from the sand in the other flask-frame and having ribbed shanks embedded in and

flanges arranged flush with the surface of said sand; said pins extending into the sockets, substantially as and for the purpose specified.

3. A mold apparatus comprising a base having upwardly-extending pins, a base having sockets, flask-frames, sockets ribbed throughout their length and adapted to be arranged and secured by sand in one flask-frame and removably placed on the pins of one base, and pins adapted to be arranged in the sockets of the other base and having shanks ribbed throughout their length and adapted to be secured by sand in the other frame, substantially as specified.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

OTHMAR EISELE.

Witnesses:

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ALVESTO S. HOGUE.