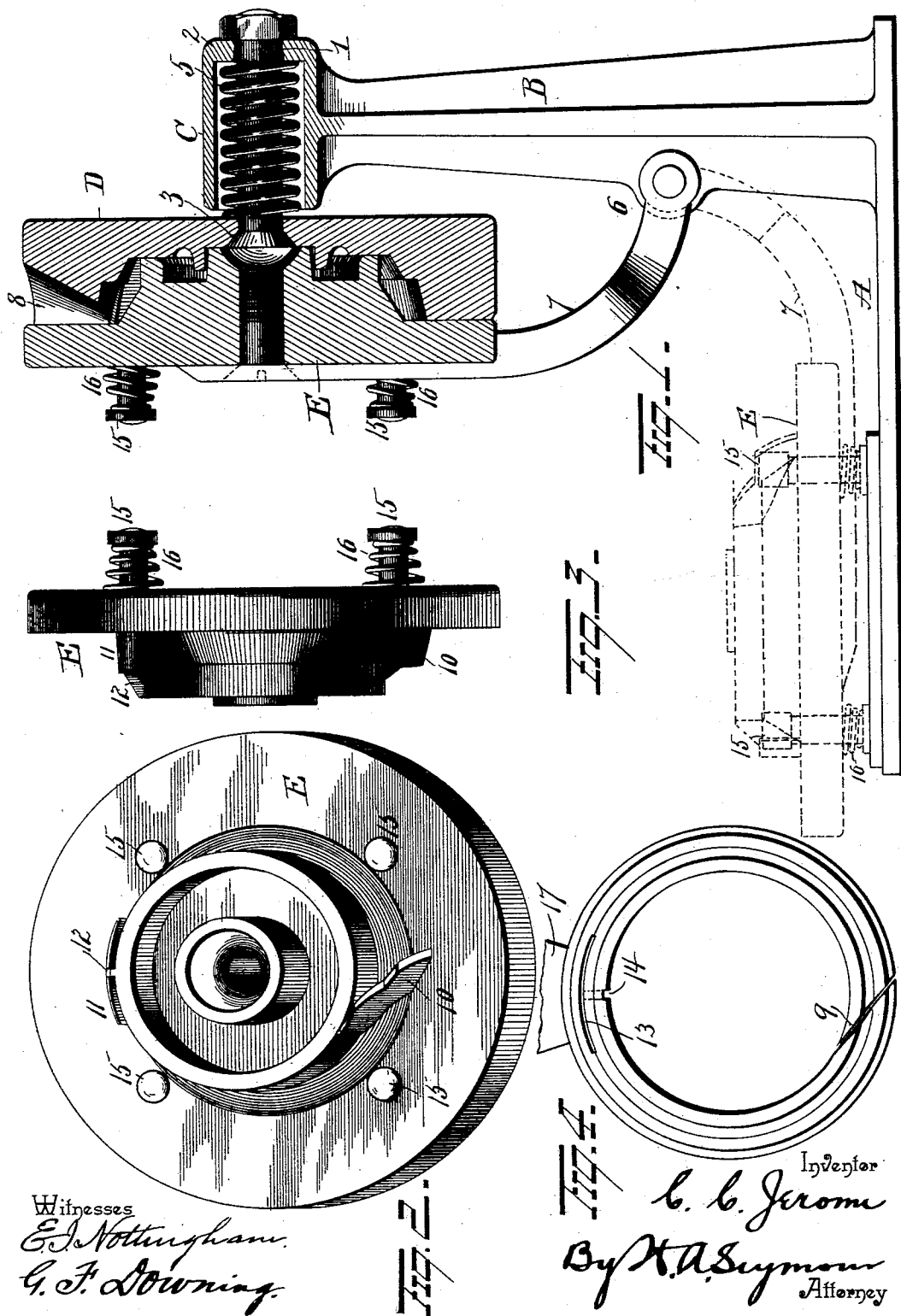


(No Model.)

C. C. JEROME.
MOLDING DEVICE.

No. 586,336.

Patented July 13, 1897.



Witnesses
E. J. Nottingham.
G. F. Downing.

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UNITED STATES PATENT OFFICE.

CHARLES C. JEROME, OF CHICAGO, ILLINOIS.

MOLDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 586,336, dated July 13, 1897.

Application filed October 5, 1896. Serial No. 607,951. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. JEROME, a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Molding Devices; 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 appertains to make and use the same.

My invention relates to an improvement in casting devices, and more particularly to devices for casting metallic packing-rings, the object of the invention being to provide simple and efficient means whereby to effect the ejection of the cast rings from the mold without danger of marring or otherwise injuring the same.

A further object is to provide simple and efficient means whereby to insure the proper and accurate alinement of the parts of the mold.

A further object is to produce casting devices which shall be simple in construction, cheap to manufacture, and effectual in all respects in the performance of their functions.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation, partly in section, illustrating my invention. Fig. 2 is an inner face view of one of the half-molds. Fig. 3 is an edge view of one of the half-molds, and Fig. 4 is a view of the packing-ring.

A represents a suitable base, and B a standard thereon. The standard B is provided at its upper end with a horizontally-disposed cup-shaped head or enlargement C. A bar or bolt 1 is mounted loosely in the closed end 2 of the head C and extends through said head, terminating a short distance beyond the open end of the head. To the free end of the bar or bolt 1 the half-mold D is loosely connected, the free end of the bar or bolt passing through a hole in the half-mold and having a head 3 disposed in a countersink within said half-mold.

The half-mold D is maintained normally in

a vertical position by means of a spring 5, located within the cup-shaped head C, one end of said spring bearing against the closed end of said head and the other end bearing against the rear face of the half-mold D.

The standard B is provided at or near its lower end with a lug 6, to which an arm 7 is pivotally connected, and to the free end of this arm the half-mold E is secured. By swinging the arm 7 upwardly the half-mold E will be made to enter the half-mold D, after which the molten metal will be poured into the mold through an opening 8 in the half-mold D.

The half-mold D is constructed to form the exterior of the ring shown in Fig. 4, while the half-mold E is constructed to form the interior of the ring and the split and recessed portions thereof. For the purpose of forming the diagonal slip 9 in the ring the half-mold E is provided with a fin or blade 10. The half-mold is also provided with fins or projections 11 12, whereby to form the recesses 13 14 in the ring.

In order to provide simple and efficient means whereby to expel or eject the cast ring from the half-mold E without twisting or otherwise injuring said ring, the said half-mold E is provided with a series of ejectors adapted to pass loosely through suitable holes in the mold. These ejectors are maintained in such position that their inner ends will be flush with the inner face of the mold by means of springs 16, one end of each spring being seated in a recess in the outer face of the mold and the other end bearing against the head of the ejector.

After a packing-ring shall have been cast the arm 7, carrying the half-mold E, will be swung down until the heads of the ejectors 15 strike the base A or other flat surface. Downward pressure on the half-mold E will now cause the ejectors to project through the holes therein and push the cast packing-ring from the mold without permitting the ring to bind or be otherwise injured by the mold. When the ring shall have been cast, the spud 17 (which formed in the inlet-opening 8) will of course be cut off.

My improvements are simple in construction, cheap to manufacture, and effectual in

all respects in the performance of their functions.

Various slight changes might be made in the details of construction of my invention
5 without limiting its scope or departing from the spirit thereof, and hence I do not wish to limit myself to the precise details herein set forth.

Having fully described my invention, what
10 I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a base and standard, of two half-molds one of which is supported by the standard, a pivoted arm carrying the other half-mold, and a series of spring-sustained ejectors passing through one half-mold whereby when the arm is dropped by the

action of gravity the ejectors will strike said base and expel the casting from the half-mold.

2. The combination with a standard, a head 20 thereon, and a pivoted arm carrying a half-mold, of a bolt passing through said head, a half-mold mounted on said bolt, a spring bearing against said head and half-mold whereby to maintain the latter in its normal position 25 and also permit it to move to insure the alignment of the other half-mold therewith.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

CHARLES C. JEROME.

Witnesses:

A. B. ELLIOTT,
L. E. BRUNSON.