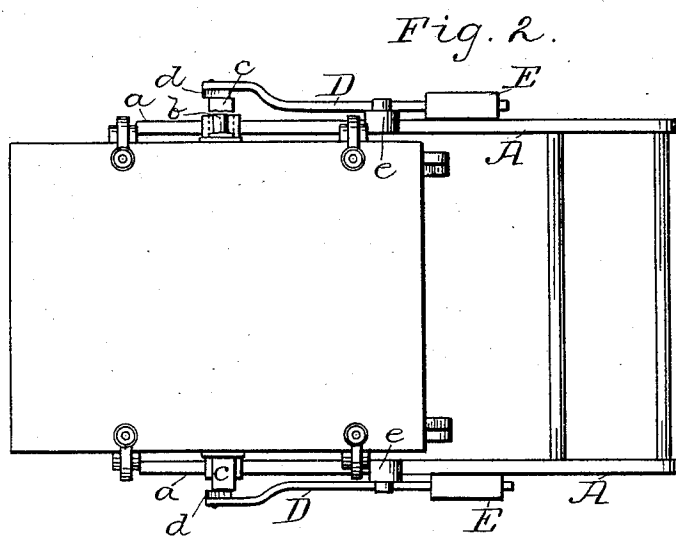
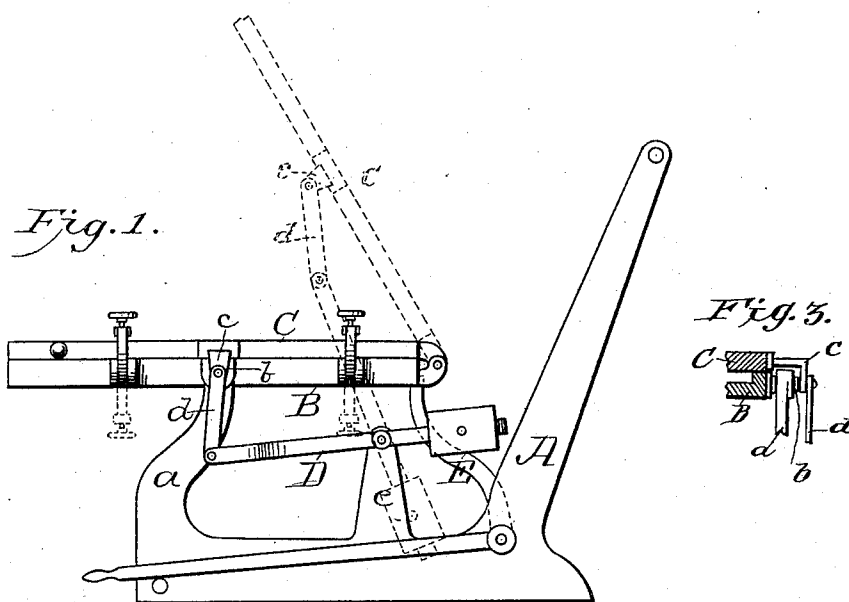


(No Model.)

J. R. CUMMINGS.
STEREOTYPERS CASTING APPARATUS.

No. 472,475.

Patented Apr. 5, 1892.



Witnesses
L. H. Gouin
H. S. Waldron

Inventor
John Raymond Cummings
By his Attorney
Frank D. Thompson

UNITED STATES PATENT OFFICE.

JOHN RAYMOND CUMMINGS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE
AMERICAN PRESS ASSOCIATION, OF SAME PLACE.

STEREOTYPER'S CASTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 472,475, dated April 5, 1892.

Application filed January 14, 1890. Serial No. 336,868. (No model.)

To all whom it may concern:

Be it known that I, JOHN RAYMOND CUMMINGS, of Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Stereotypers' Casting Apparatus, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The object of my invention is to provide a simple attachment to stereotype-casting boxes, whereby the parts thereof are so counterbalanced that they are rendered much easier to manipulate than was possible with the old construction, substantially as hereinafter fully described, and as illustrated in the drawings, in which—

Figure 1 is a side elevation of my invention, and Fig. 2 is a plan view thereof. Fig. 3 is a detail view showing an edge view of the devices contiguous to the pivot of the box.

Referring to the drawings, A A represent the usual L-shaped side supporting-frames, which are secured together by suitable cross-bars and which have open bearings in the upper extremities of the shorter vertical arms *aa* for the trunnions *bb* of the mold. These trunnions project laterally from the "box" B of the mold and preferably do not extend beyond their bearings.

The cover C of the mold is hinged to that end of the box which when the same is in a horizontal position is nearest the longest vertical arms of frames A, and both the box and cover are so balanced on trunnions *b* that but slight effort is needed to maintain the mold in a horizontal position when so desired.

Secured to the sides of the cover C at such points that when the mold is in a horizontal position the vertical plane drawn through the

center of the trunnions intersects it are the brackets *cc*. These brackets project laterally outward and then downward from said cover, so as not to interfere with the box and so as to come outside of and opposite the ends of trunnions *b*, where they terminate and have pivoted to them the upper ends of links *dd*. The lower ends of links *d* are pivotally connected to the forward ends of the levers D D, which are fulcrumed on suitable lateral studs projecting from the posts *ee*, which rise vertically from frames A A between the longer and shorter arms thereof.

The rear end of levers D support a weight E independently or in common. The total weight, however, is sufficient to counterbalance the cover when the same is lifted off the box to a vertical position, as shown in Fig. 1.

If preferred, the links may be pivoted direct to the cover, and, moreover, may be connected thereto at points farther from the pivotal center of the box than as shown.

What I claim is—

1. In a stereotype-casting apparatus, the combination, with the box and cover thereof, of the link *d*, pivotally connected to said cover in transverse alignment with the axis of said box, lever D, and weight E, as set forth.

2. In a stereotype-casting apparatus, the combination, with the box, cover thereof, and brackets *cc*, projecting from the side edges thereof, of links *dd*, pivoted to said brackets in transverse alignment with the axis of said box, levers D, and weights E, said links connecting said brackets and levers, as set forth.

JOHN RAYMOND CUMMINGS.

Witnesses:

P. B. COOLIDGE,
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