

(No Model.)

J. R. CUMMINGS.
STEREOTYPER'S CASTING APPARATUS.

No. 433,449.

Patented Aug. 5, 1890.

Fig. 1.

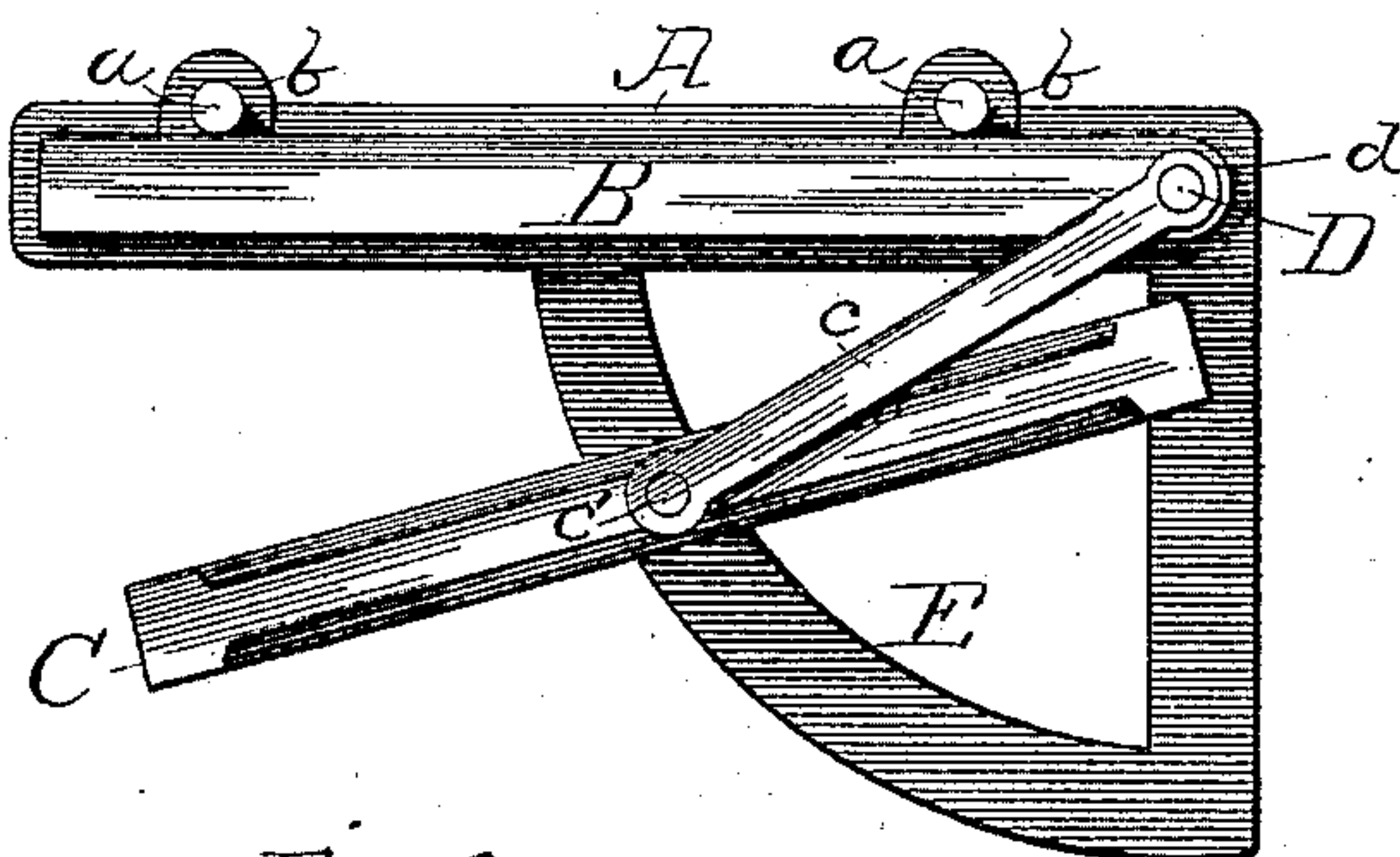


Fig. 2.

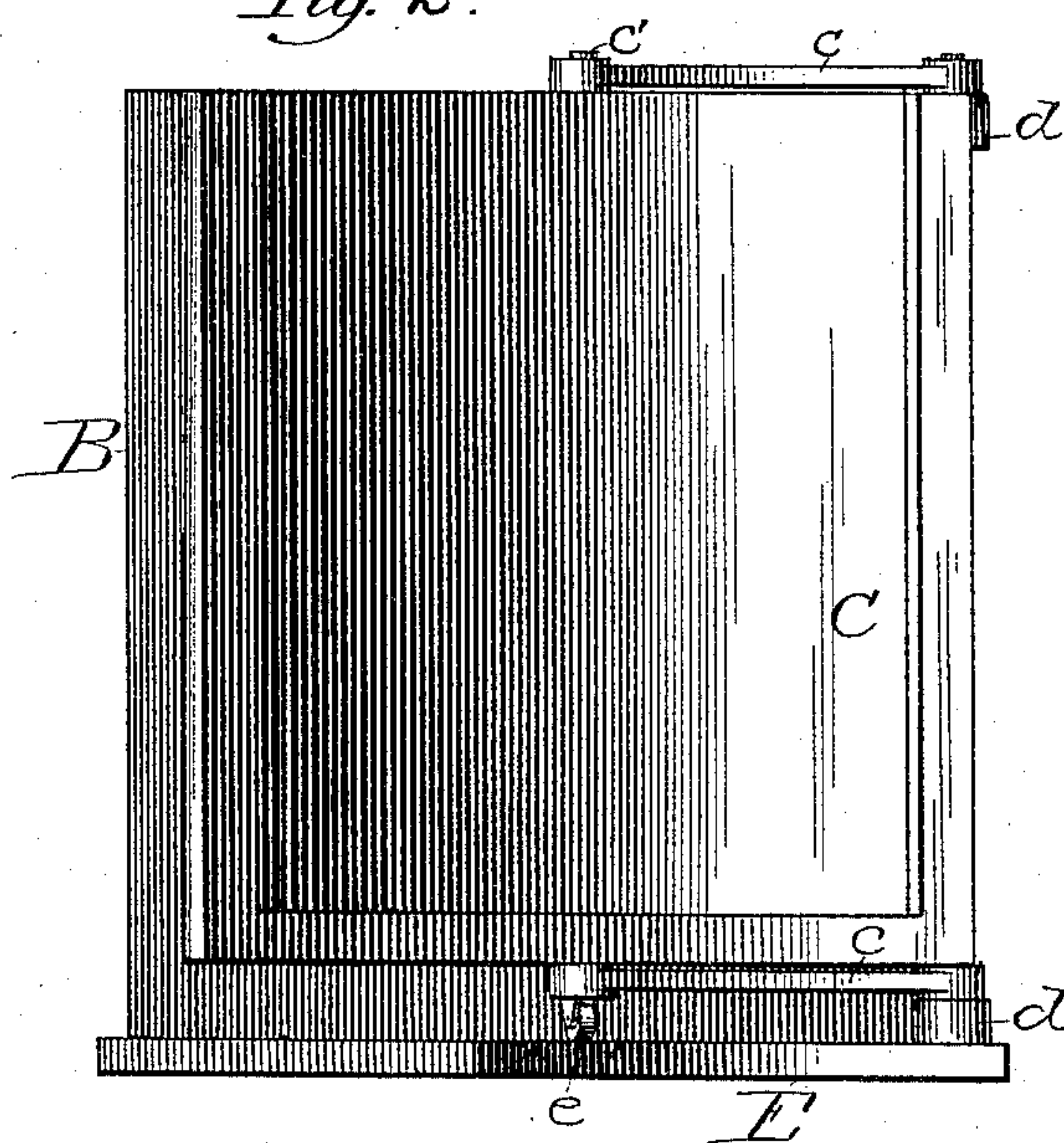
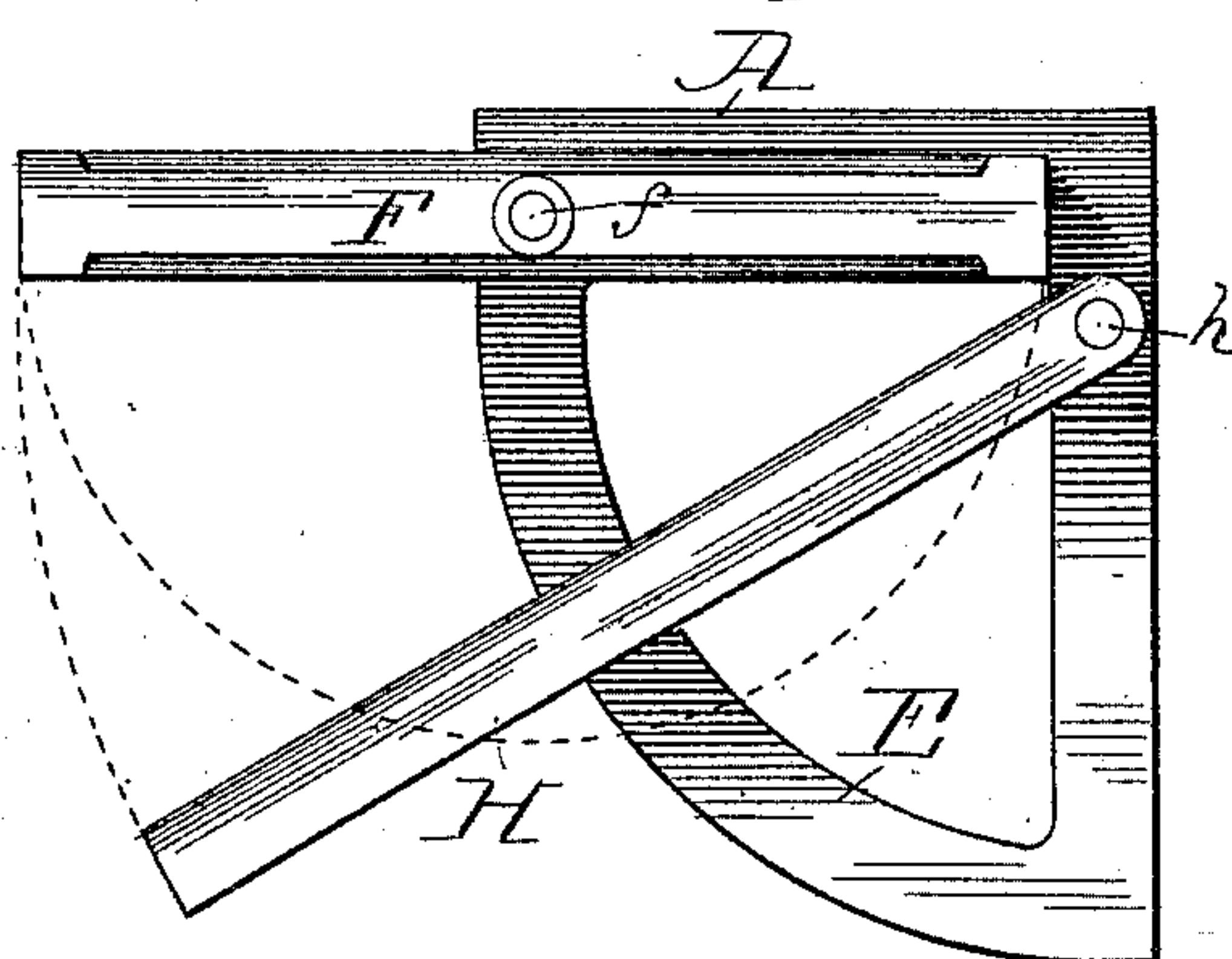


Fig. 3.



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STEREOTYPER'S CASTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 433,449, dated August 5, 1890.

Application filed March 26, 1888. Renewed January 20, 1890. Serial No. 337,410. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. CUMMINGS, of New York, in the county of New York and State of New York, 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.

My invention relates to new and simple improvements in stereotypers' casting-boxes whereby I am enabled to make a single casting apparatus perform the duty of two of the common apparatuses now in extensive use, substantially as hereinafter fully described, and as illustrated in the drawings, in which—

Figure 1 is a plan view of my improved apparatus. Fig. 2 is a front elevation thereof, and Fig. 3 is a plan view of a modification thereof.

Referring to the drawings, A represents a base-plate, and B represents a vertical bed-plate resting on edge on said base-plate and secured in such vertical position by means of posts *a a*, embedded at their lower ends in and rising vertically from the base-plate back of said bed-plate through lugs *b b*, projecting to the rear therefrom.

C represents a cover having both sides cored, as shown, to produce the desired conformation of the under surface of the plate or base to be cast. This cover is connected to said bed-plate by links *c c*, which are journaled on trunnions *c' c'*, projecting from the centers of length of the upper and under edges thereof in vertical alignment one with the other. The other ends of these links are secured to the oscillating pintle-bar D, which is journaled in the knuckles *d d*, projecting, preferably, from the right-hand vertical edge of the bed-plate near or at the upper and lower angles thereof. The lower trunnion *c'* has extending downward from it two lugs, between which is journaled the caster *e*. This caster may travel on the floor. I prefer, however, to roll it on the curved track E, whose course corresponds to a circle struck from the pivotal center of the links, and a plan view of which makes the right-hand end of the

bed-plate (with which it is preferably cast in one piece) describe the contours of a quadrant.

The operation of the invention as above described is as follows: One cored surface of the cover is (after a matrix of the usual construction is placed over said cored surface, so as to bring the under conformations of the plate or the base in register with the type-surface thereof) brought broadside against the bed and clamped thereto in a suitable manner. After the casting is made in the mold thus formed, said cover is unclamped and swung outward away from the bed a suitable distance, whereupon the said cover is revolved around the center of the trunnions *c'*, so as to bring the unused cored surface in opposition to the bed, against which it is then swung and clamped, and the casting operation repeated.

In Fig. 3 I show a modification of my invention, which consists of an oscillating cover H and a revolving bed F, cored on both sides, as shown. The bed revolves around a pivotal post *f*, which arises from the base-plate, and passes vertically and centrally through the bed, and the cover, both sides of which are plane and smooth, is pivoted to a vertical post *h*, rising from the base-plate at such position that said cover can be oscillated, so as to come flat against one of the cored sides of said revolving bed and clamped thereto. When a casting is made by the mold thus formed, the cover is oscillated back out of the way and the bed swung around so as to bring its unengaged cored surface opposite the cover, which is then closed against it and clamped, ready for another casting operation.

It is apparent that with the cover C constructed as shown in Figs. 1 and 2 of the drawings both sides of the bed could be utilized. All that would be necessary would be the swinging of the cover C all the way around from one side of the bed to the other.

What I claim is—

1. The combination, in a stereotype-casting apparatus, with a revolving vertical cover cored on both sides, of a vertical bed, as set forth.

2. The combination, with the base-plate and bed-plate secured to and rising vertically

from said base-plate, of the revolving cover
cored on both sides and having trunnions pro-
jecting from the centers of length of the up-
per and lower edges, the links connecting said
5 trunnions to suitable knuckles projecting
from the side angles of one vertical edge of
said bed, and a caster journaled between suit-
able lugs projecting down from the under
trunnion, as set forth.

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