

(No Model.)

G. W. HUNT.
INK DISTRIBUTER FOR PRINTING PRESSES.

No. 547,922.

Patented Oct. 15, 1895.

Fig. 1.

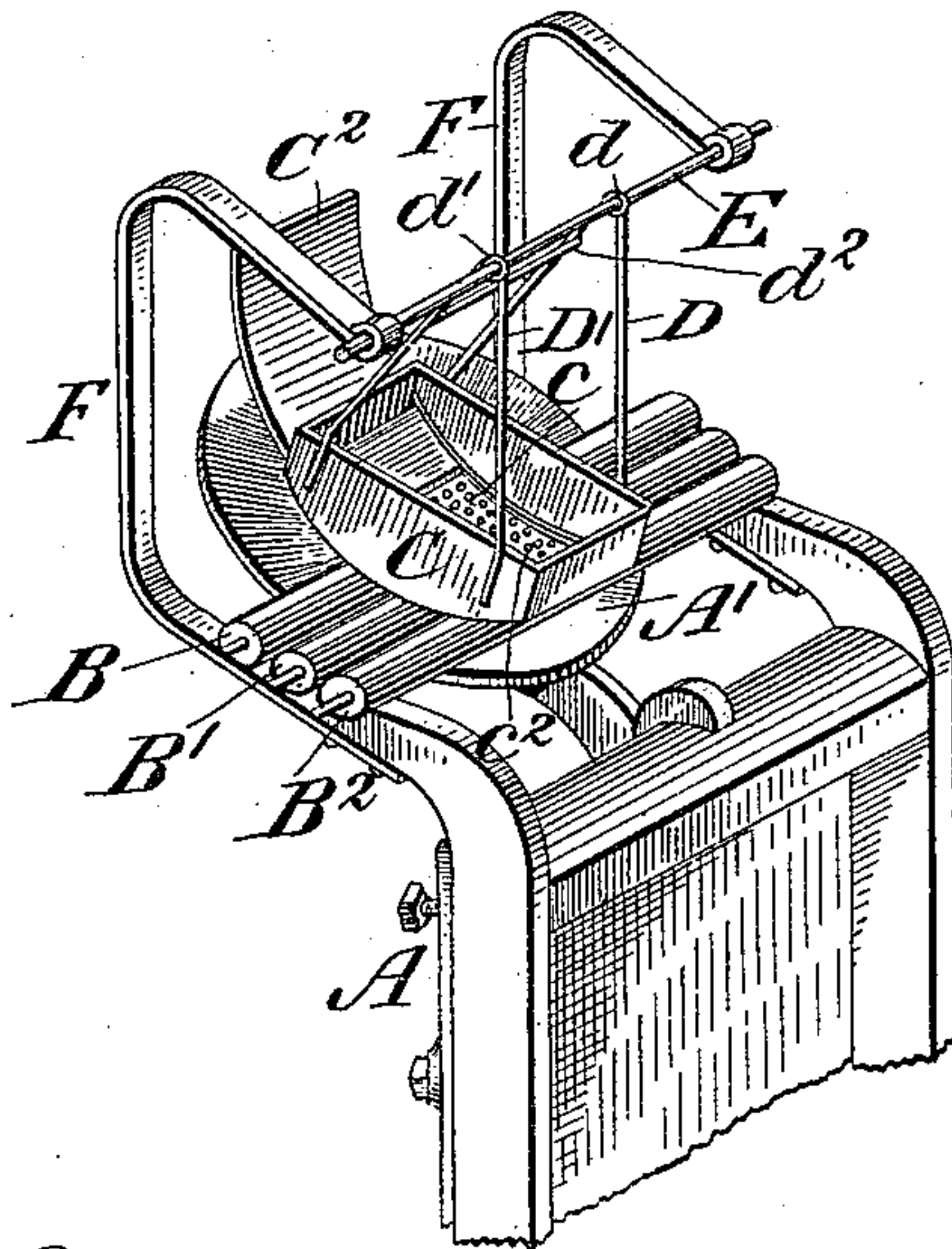


Fig. 2.

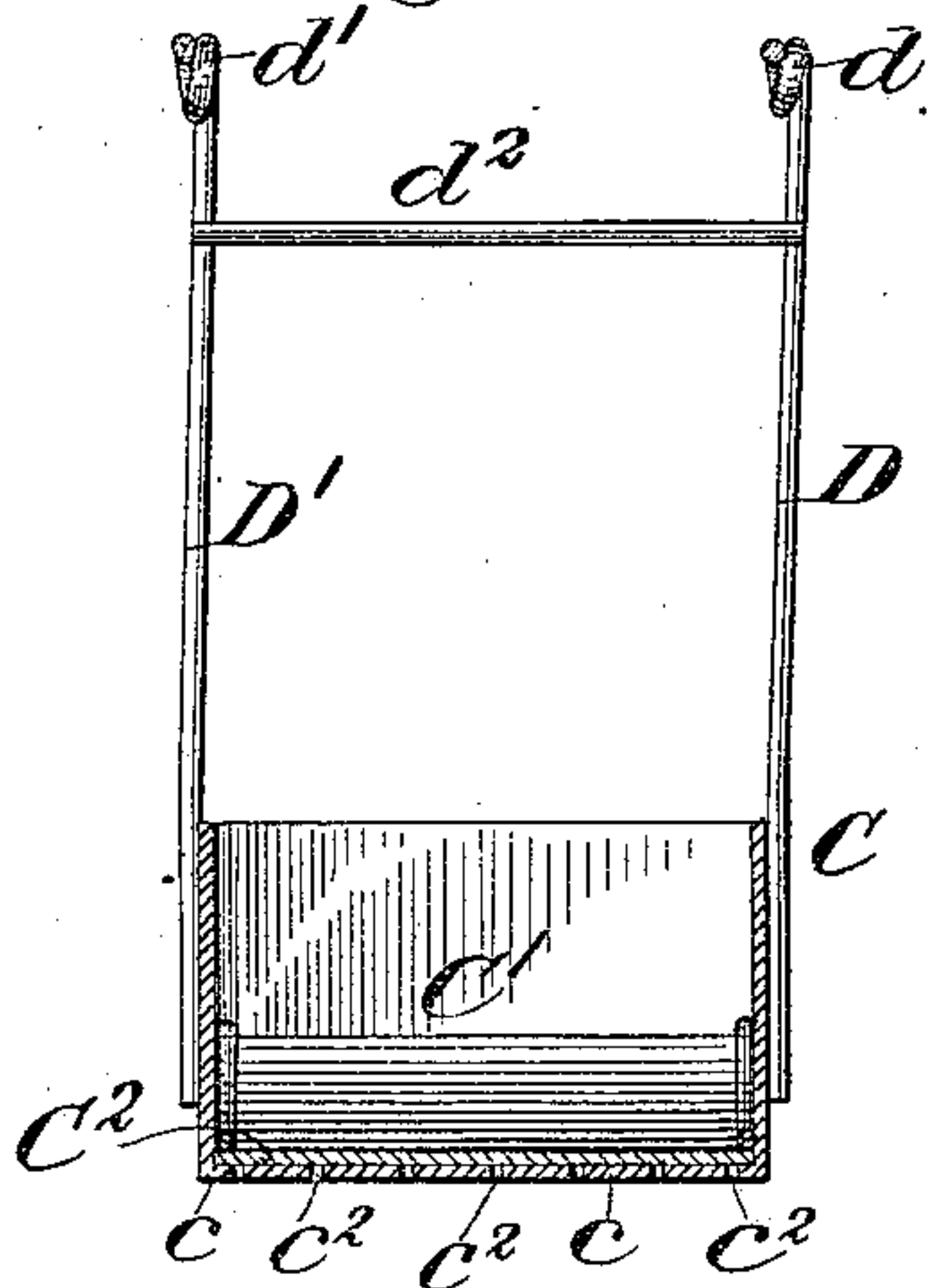
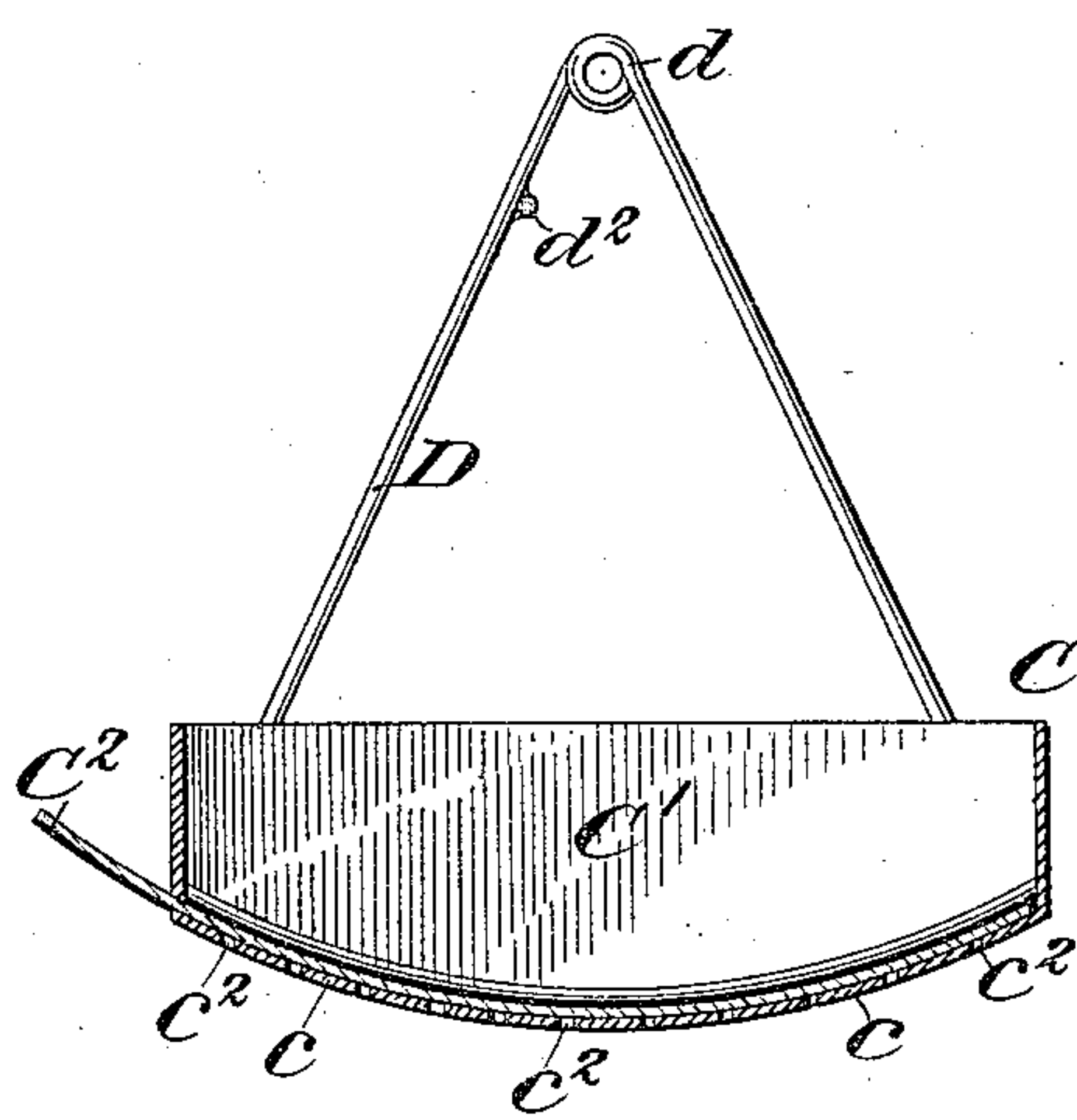


Fig. 3.



Witnesses:-

D. H. Maybrook
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Inventor:-

George W. Hunt
by his attorney,
Edwin H. Brown

UNITED STATES PATENT OFFICE.

GEORGE W. HUNT, OF WATERVILLE, MAINE.

INK-DISTRIBUTER FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 547,922, dated October 15, 1895.

Application filed December 15, 1894. Serial No. 531,997. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. HUNT, of Waterville, Maine, have invented a certain new and useful Improvement in Ink-Distrib-
5 uters for Printing-Presses, of which the following is a specification.

My invention relates to devices for delivering ink to the inking-rollers of a printing-press, and has for its object to provide an
10 ink fountain or tank of such construction and of such relative arrangement with respect to the inking-rollers of a printing-press that it is possible for the ink to be more evenly and uniformly distributed to the rollers than in
15 devices heretofore designed for similar purposes.

I will describe an ink-fountain embodying the features of my improvement, and then point out the novel features in the claims.

20 In the accompanying drawings, Figure 1 is a perspective view of an ink-fountain embodying my improvement and shows a method of applying the same. Fig. 2 is a transverse section of my improved ink-fountain. Fig. 3
25 is a longitudinal section of the same.

Similar letters of reference designate corresponding parts in all the figures.

I have shown my invention as being applied to an ordinary job-printing press A, hav-
30 ing an ink-disk A' and inking-rollers B B' B². This particular form of press I have taken for the sake of illustration, but the invention may be with equal advantage applied to other forms of presses, since its ap-
35 plication to any form consists merely in so positioning the ink-fountain relatively to the inking roller or rollers or auxiliary rollers as will permit the rollers to roll upon the lower surface of the fountain during a part of their
40 movement.

The ink-fountain consists, essentially, in a box-like receptacle or tank provided with a perforated bottom and suspended or so supported that the inking-rollers may roll along
45 its lower surface. The perforations in the bottom of the ink-fountain are not of a size, however, sufficient to allow the contained ink to pass freely through them. Furthermore, the number of these perforations to which the
50 ink has access to pass to the outside of the fountain can be varied by an adjustable cover

or slide adapted to move over the bottom of the fountain, covering or uncovering the perforations therein.

Referring to Fig. 1, the ink-rollers B B' B² 55 are shown as being constructed to move over the upper surface of an inking-disk A', while they also move over the under surface of the ink-fountain C. The latter is made in the form of a cradle pivoted to an axis extending 60 in a direction substantially parallel to that of the inking-rollers. The fountain will be seen to comprise a box-like receptacle or tank C', pivotally suspended by hangers D D' from a shaft or rod E, secured to a standard F, the 65 latter extending from a fixed support—as, for instance, the stationary part of the press. The hangers D D' may conveniently be made of pieces of wire, which are secured at their ends to the side of the tank near one end of 70 the latter, then extended upward and bent to form eyes d d' at the middle portions to embrace the shaft or rod E, and finally downward to the opposite end of the tank, to which they are secured. 75

d² is a tie-rod extending from one hanger to the opposite hanger near their pivotal portions.

The plate forming the bottom c of the tank C' is provided with a number of perforations 80 c² sufficiently small in area to prevent the ink from passing freely through the same.

C² is a slide adapted to move lengthwise in the tank C' over the bottom of the same. It can be adjusted inward and outward for the 85 purpose of increasing or decreasing the number of perforations exposed. The slide is preferably formed of a flat flexible strip—for instance, sheet metal. The guides for directing the movement of the slide may be made 90 of pieces of wire secured, as by soldering, to the side walls of the tank on their inner surfaces in close proximity to the bottom c. The lower or outer surface of the bottom of the tank is curved longitudinally, and the foun- 95 tain is so supported that as the advancing roller B passes upward onto the disk A' it contacts with the perforated bottom of the tank somewhat near the rear portion of the latter. The fountain now swings backward through 100 the friction of the roller, the latter at the same time rolling over the perforated bottom, and

as the substances forming such rollers are of a more or less compressible nature the ink is drawn out and passes through the perforations and is deposited uniformly over the periphery of the roller. During the progress of the roller forward it will, on account of the angularity of the disk and the lower surface of the fountain, pass out of contact with the latter. The fountain is in consequence carried continuously to the outer limit of its movement. During the backward movement of the rollers the motion of the fountain is reversed, and it is carried back to its normal position.

15 Having described my invention, what I consider as new, and desire to secure by Letters Patent, is—

1. A pivoted ink fountain or tank for a printing press having a perforated bottom and 20 capable of being oscillated upon its pivots in the direction of movement of the rollers, the rollers drawing the ink through the perforations during such movement substantially as specified.

25 2. A pivoted ink fountain or tank for a printing press, with which the rollers of the press are adapted to contact, having a perforated bottom, combined with an adjustable

slide adapted to cover and uncover the said perforations, substantially as specified. 30

3. A pivoted ink fountain or tank for a printing press, adapted to contact with and be oscillated by the rollers of the press, the fountain being provided with a perforated bottom through which ink is drawn by the 35 rollers, substantially as specified.

4. An ink fountain or tank for a printing press suitably supported to move in the direction of movement of the rollers, the rollers contacting with the rear portion of the fountain and rolling over its lower surface and drawing ink through perforations provided in the bottom of the fountain, substantially as specified. 40

5. An ink fountain or tank for a printing 45 press, having an oscillating motion, and provided with a perforated bottom combined with a slide for covering and uncovering the perforations, substantially as specified.

In testimony whereof I have signed my 50 name to this specification in the presence of two subscribing witnesses.

GEORGE W. HUNT.

Witnesses:

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MARGARET REID.