

INKING APPARATUS FOR PRINTING-PRESSES.

Patented Dec. 21, 1875.

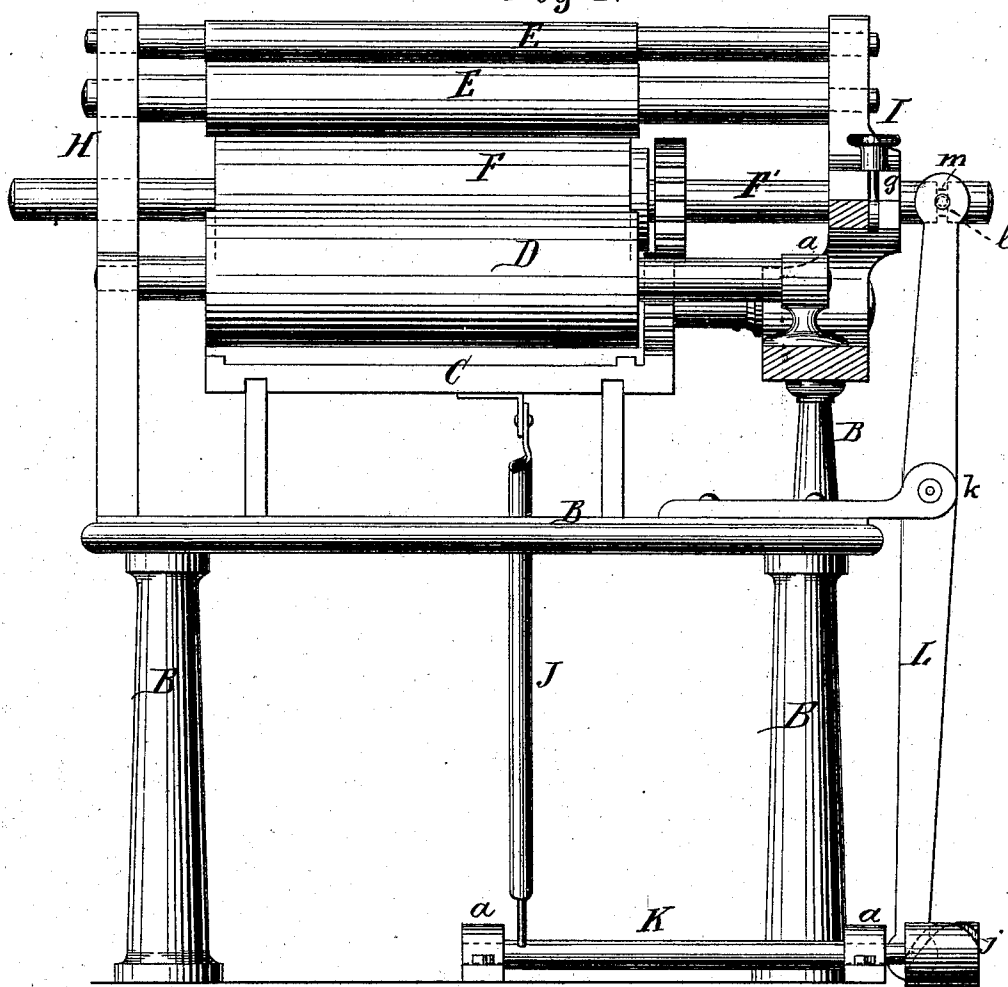


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UNITED STATES PATENT OFFICE.

CHARLES POTTER, JR., AND JAMES F. HUBBARD, OF PLAINFIELD, N. J.

IMPROVEMENT IN INKING APPARATUS FOR PRINTING-PRESSES.

Specification forming part of Letters Patent No. **171,243**, dated December 21, 1875; application filed February 23 1875.

CASE A.

To all whom it may concern:

Be it known that we, CHARLES POTTER, Jr., and JAMES F. HUBBARD, both of Plainfield, Union county, New Jersey, have invented certain new and useful Improvements relating to Inking Apparatus for Printing-Presses, of which the following is a specification:

Our invention has relation to those presses in which the bed has a reciprocating movement, and the distributing roller or rollers a vibratory one, for better and more evenly spreading the ink.

A well-known method of imparting to the rolls on which the bed travels their proper motion is to mount them in a frame, and connect the frame to the center of a vibrating lever, one end of which rocks on a fixed axis, and the other is connected to the traveling bed. We employ such, and fix the lever on a shaft which extends outside of the main frame of the press, and carries a grooved cam. The rocking motion of this cam acts through a pin, which matches in a groove therein, to impart the proper vibrating motion to the ink-distributing roll or rolls. When the force which rocks the lever, to vibrate the distributing-roll, is derived directly from the main cylinder, it tends to induce end movements of that cylinder, which it is of the first importance to avoid. The interposition of gearing and another shaft involves expense and increased risk of derangement. I avoid all the difficulties by taking the motion from a shaft, which, although only rocking instead of revolving, I find well adapted for the purpose, and being already required for other purposes, the invention involves no expense of any moment.

The accompanying drawings form a part of

this specification, and aid in explaining what we consider the best means of carrying out our invention.

The same parts are shown by the same letters throughout.

Figure 1 is a front view of the bed-plate and rollers of one of our improved printing-presses. Fig. 2 is a side view, showing the positions of the telescopic lever when the bed-plate is at either end of the press. Fig. 3 is a plan view of a portion.

B B B are parts of the frame. C is the bed, which reciprocates its friction-rollers beneath. (Not shown.) D D are ink-rolls. E E are small rolls. F is the vibrating distributor; F', its axle; H, a common housing; I, an improved housing and bearing combined; J, the telescopic or sleeve lever; K, the rocking shaft; L, the vibrating lever. Bearings are shown at *a a a*. The cam-head of the rocking shaft K is shown at *h*, with its worm thread or groove *j*, receiving a pin, *p*, which is fixed in the lever L. This lever is pivoted at *k*, and plays by the pin *l* in the groove *m* of the roller-axle F'.

We claim as our invention—

In combination with the reciprocating bed C, and a lever connecting the same with the rocking shaft K, the grooved cam *h j*, fixed on the shaft K, the lever L and its connections, and the distributing-roll F, as herein specified.

In testimony whereof we have hereunto set our hands this 18th day of January, 1875, in the presence of two subscribing witnesses.

C. POTTER, JR.,
JAMES F. HUBBARD.

Witnesses:

THOMAS D. STETSON,
JOHN BUCKINGHAM.