

C. POTTER, Jr., & J. F. HUBBARD.
 Bearings for Distributing Rollers of Printing
 Presses.

No. 169,191.

Patented Oct. 26, 1875.

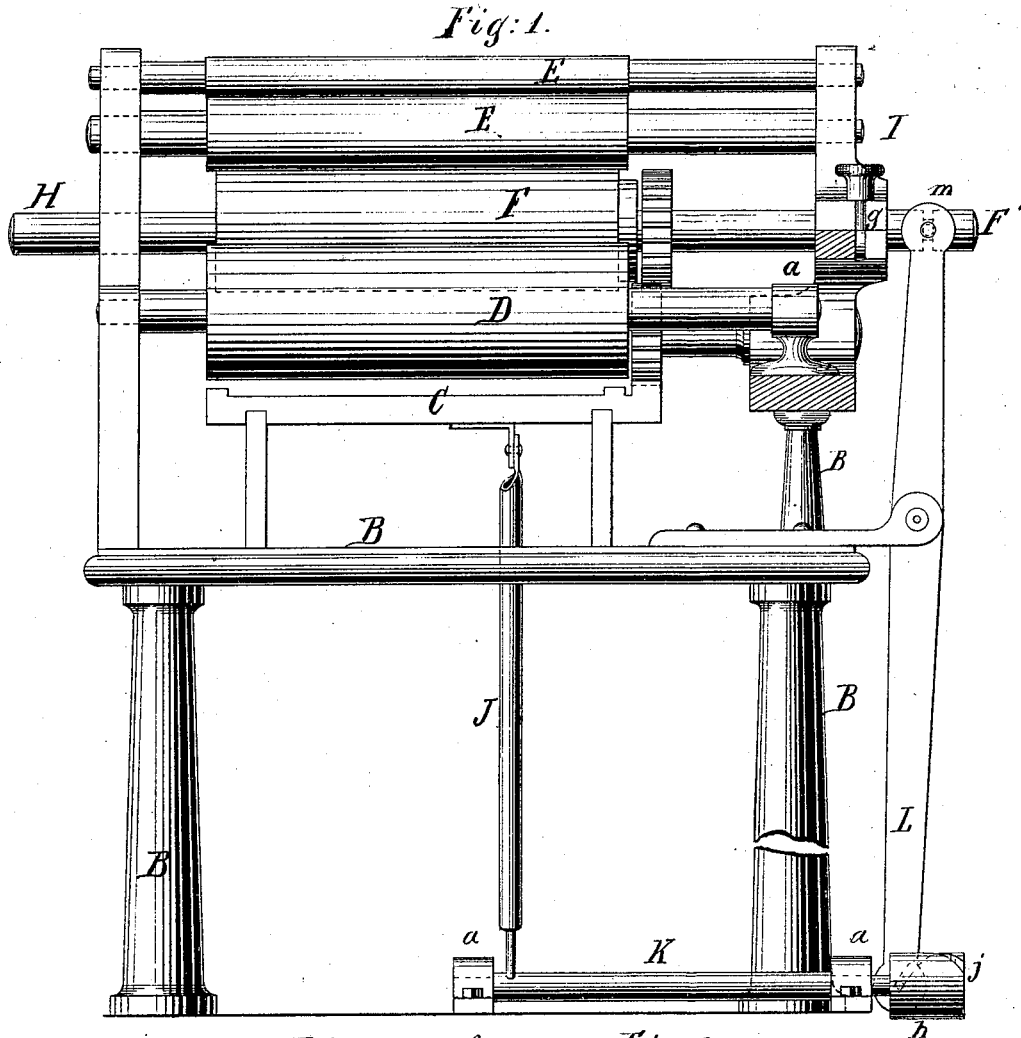
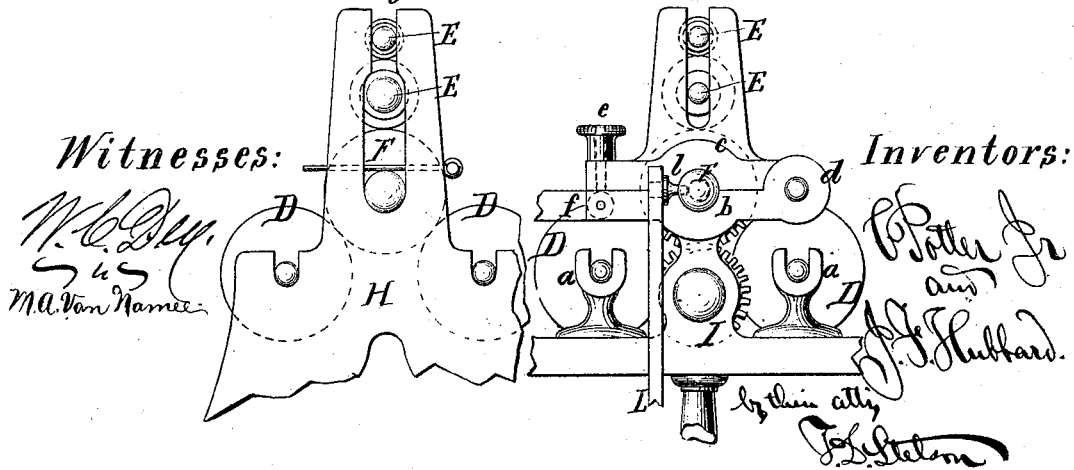


Diagram A.

Fig: 2.



UNITED STATES PATENT OFFICE.

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

IMPROVEMENT IN BEARINGS FOR DISTRIBUTING-ROLLERS OF PRINTING-PRESSES.

Specification forming part of Letters Patent No. **169,191**, dated October 26, 1875; application filed February 23, 1875.

CASE B.

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 relative to Bearings for Distributing-Rollers of Printing-Presses, of which the following is a specification:

We have, in the course of a long experience in the manufacture of printing-presses, discovered and successfully put in practice means by which the journals of what is known as the "vibrating distributor" are so held that this roller, while it is firmly held down during a temporary removal of the upper rolls, may be easily and quickly removed from, and replaced in, its bearings.

As an improvement upon the usual "pipe-bearing," the removal of the roller from which necessitated a tedious operation of unscrewing, unshipping, and subsequent retightening and adjusting, the simplest of several methods has been to set the journals loosely in the housings or vertical jaws, one distributing-roller over the other. The upper rolls are in such case easily removable; but the objection is insurmountable that the vibrating distributor is held down only by the use of objectionable additions when the upper rollers are removed. It is necessary to hold it down firmly to allow of the working of the gearing, which unavoidably tends to elevate the distributing-rolls.

To obviate all difficulties we make the housing, which carries the two small upper distributing-rolls, a part of the hinged journal-box of the vibrating distributor. This we accomplish by hinging the housing to the journal-bed, and securing it by a clamp, hinged, turning up into a slot, and secured by a compressing or thumb screw.

The accompanying drawings form a part of this specification, and aid in describing 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 of one of our improved bearings for distributing-rollers.

Diagram A is a side view of one of the common housing-bearings.

B B B are parts of the frame. C is the bed-plate, which reciprocates, its friction-rollers beneath. (Not shown.) D D are inking-rollers. E E are small rolls. F is the vibrating distributor; F', its axle; H, a common housing; I, our 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 bed-plate of the housing-bearing at *b*; its upper piece or jaw *c* hinged at *d*, and retained by the compression-screw *e*, which is hinged at *f*, and shuts into the slot *g*. The cam-head of the rocking shaft is shown at *h*, with its worm-thread or slot *j*, the lever L being pivoted at *k*, and playing, by the pin *l*, in the groove *m* of the roller-axle F'.

We do not claim the hinged binder and confining means except when the same forms also a housing for rollers above, which housing is raised and replaced therewith; but

We claim as our invention—

In combination with the inking-rolls D D and distributing-roll F, with one or more rolls mounted above and pressing upon the latter, the hinged housing or jaw *c d*, and its confining means *e*, serving both as a loose guide and support for the upper roller or rollers, and a firm and readily-releasable box for the journal of the distributing-roll F, substantially as herein specified.

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

C. POTTER, JR.
JAMES F. HUBBARD.

Witnesses:

THOMAS D. STETSON,
JOHN BUCKINGHAM.