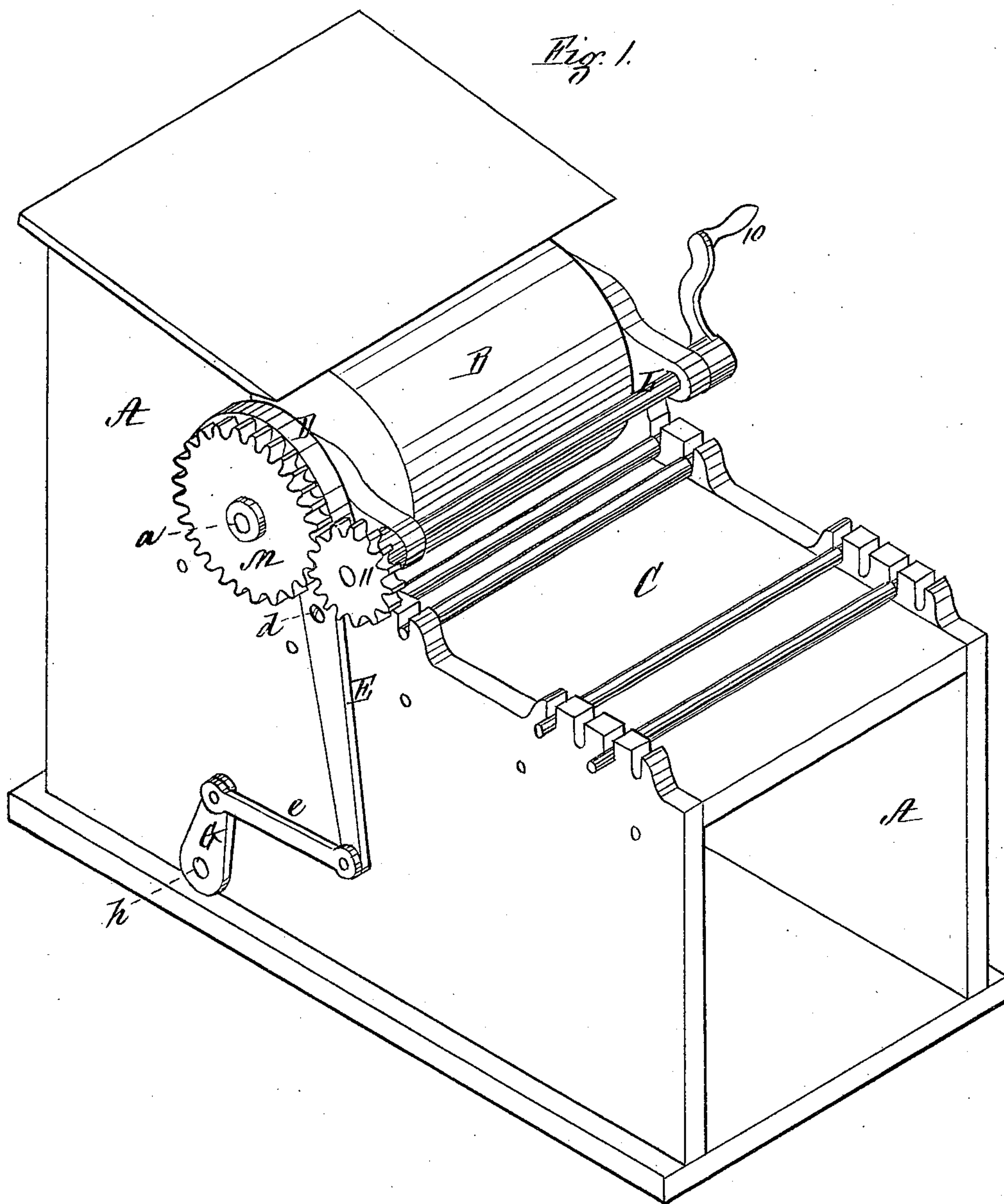


F. MEISEL.  
ROTARY PRINTING-PRESS.

No. 174,553.

Patented March 7, 1876.



Witnesses,  
W. J. Cambridge  
Geo. E. Griffin

Inventor,  
Francis Meisel  
per T. Schenck & Stearns  
Attys

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Fig. 2.

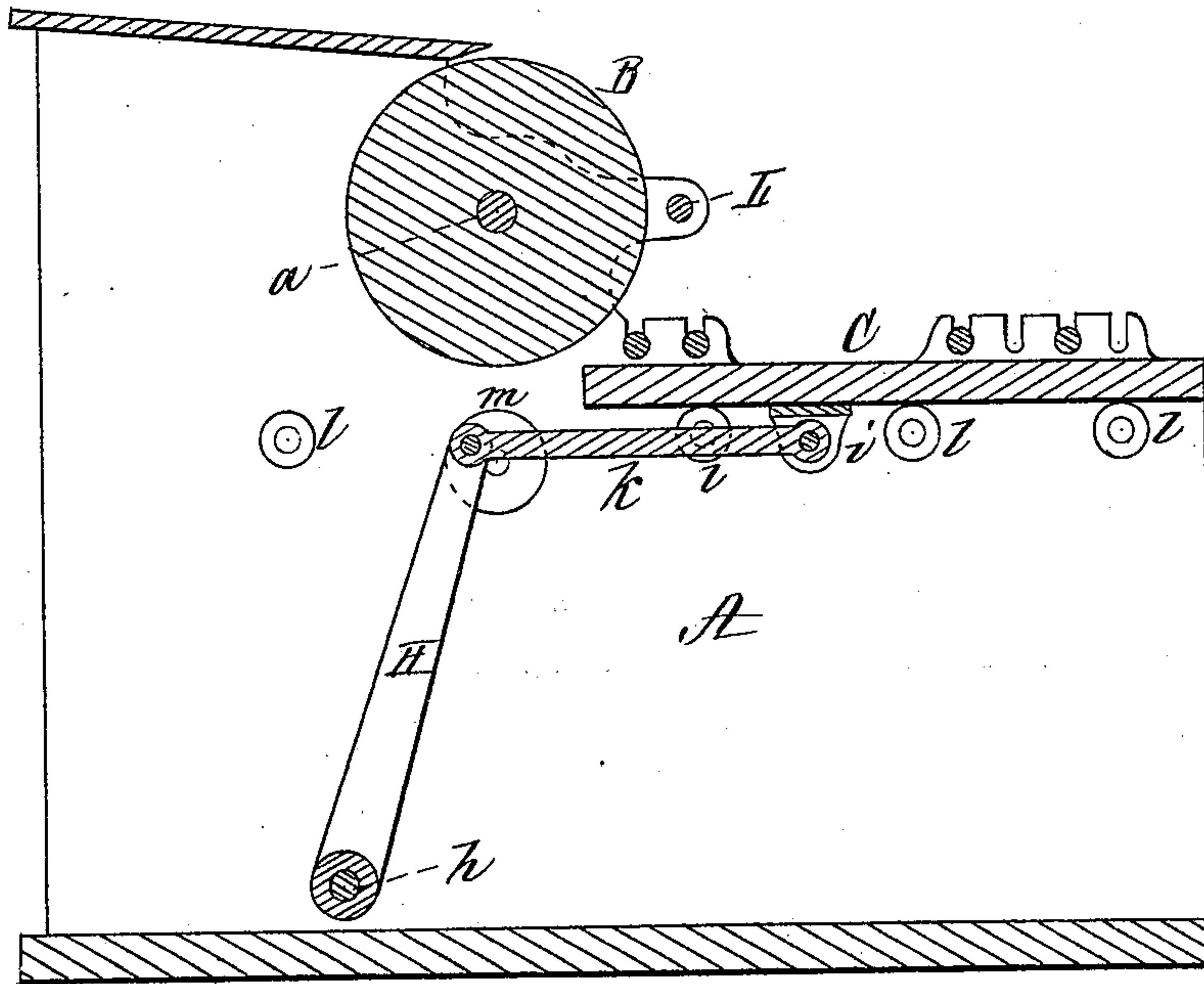


Fig. 3.

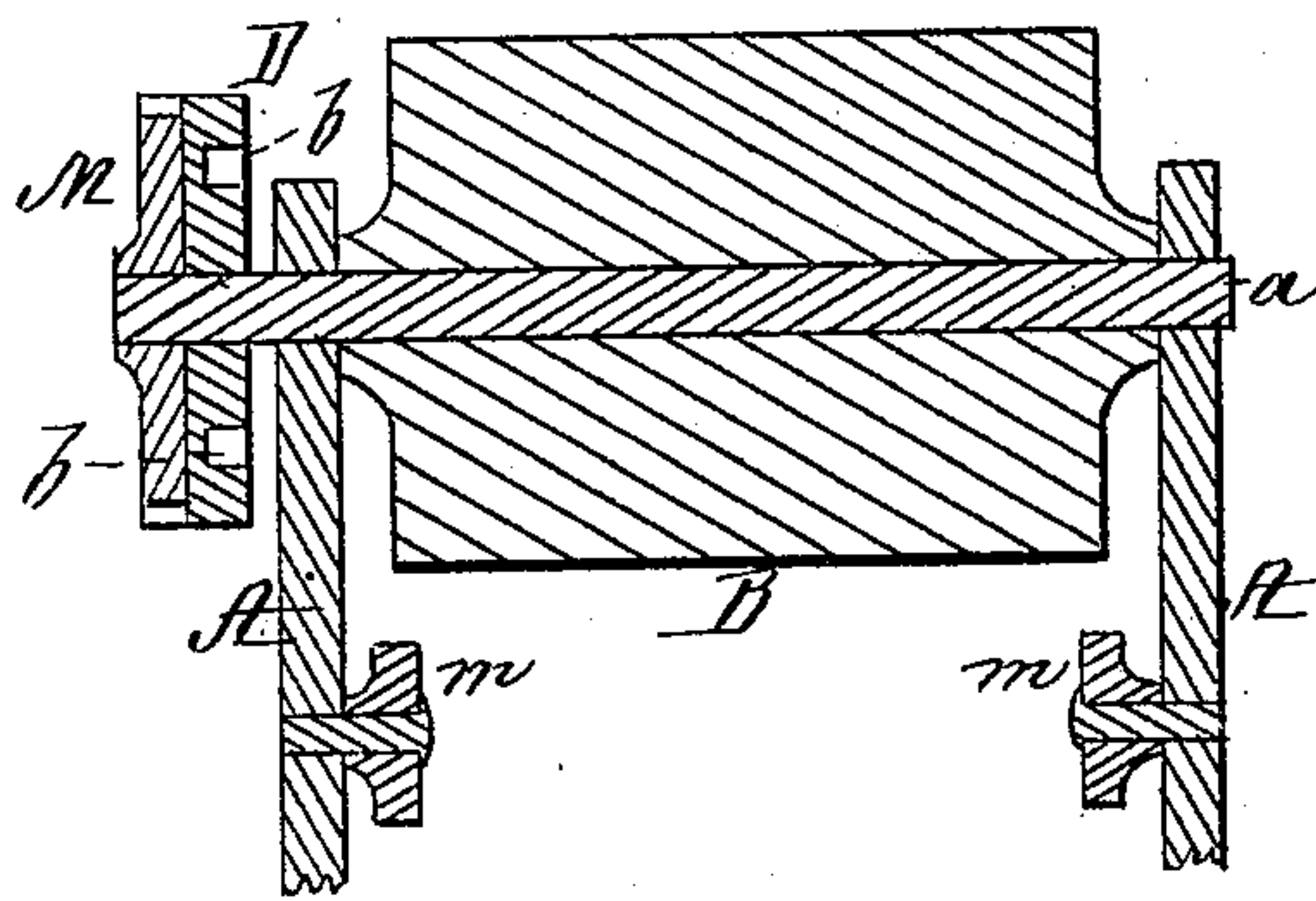
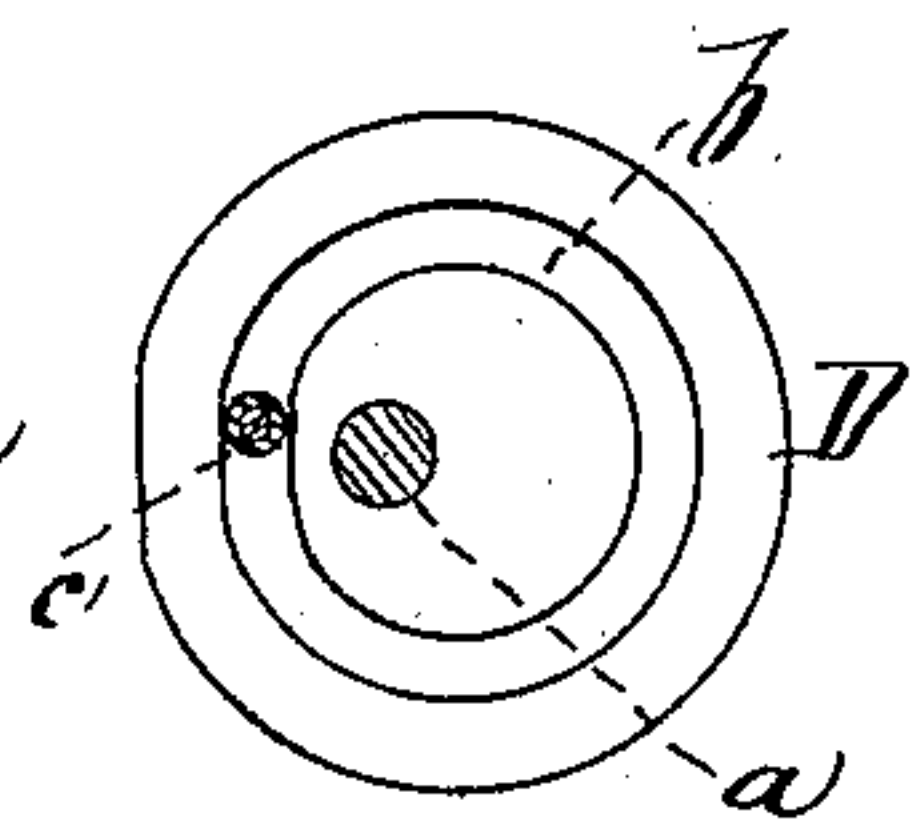


Fig. 4.



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W. J. Cambridge  
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# UNITED STATES PATENT OFFICE.

FRANCIS MEISEL, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN ROTARY PRINTING-PRESSES.

Specification forming part of Letters Patent No. **174,553**, dated March 7, 1876; application filed July 29, 1875.

*To all whom it may concern :*

Be it known that I, FRANCIS MEISEL, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Cylinder Printing-Presses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a portion of a cylinder printing-press with my improvements applied thereto. Fig. 2 is a longitudinal vertical section through the center of the same. Fig. 3 is a transverse section through a portion of the cylinder, and the gearing secured to one end of its shaft. Fig. 4 is a detail in section.

My present invention relates particularly to certain mechanism connecting the bed and cylinder of a printing-press, whereby the motion of the cylinder is communicated to the bed; and this invention consists in a grooved cam-wheel, secured to the shaft of the cylinder, in combination with a lever, two connecting-rods, two arms attached to a rocker-shaft, and the bed.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings A represents the frame, B the cylinder, and C the bed of a printing-press. To one end of the cylinder-shaft *a*, outside its bearing, is secured a cam-wheel, D, the inner face of which is provided with a groove, *b*, in which (as the cam-wheel revolves) moves a friction-roll, *c*, on the upper end of a

long lever, E, pivoted at *d* to the frame, the lower end of the lever being connected by a rod, *e*, with the upper end of an arm, G, secured to a horizontal rocker-shaft, *h*, having its bearings in the frame-work A. From the center of this rocker-shaft rises a long arm, H, the upper end of which is connected with a lug, *i*, on the under side of the bed C, by a connecting-rod, *k*. *l* are friction-rolls on which the bed slides as it moves back and forth under the cylinder; the pressure imparted to give the impression being received by two rolls *m* situated on opposite sides, directly and longitudinally under the center of the cylinder. A shaft, L, with a crank, 10, at one end, and a pinion, 11, at its opposite end engaging with the gear M on the cylinder-shaft, are employed to revolve the cylinder.

From the foregoing it will be seen that the bed receives motion from the cylinder by means of a few simple connections therewith, compactness, reliability, and a reduction in the cost of construction being thereby insured.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the cylinder B, shaft *a*, grooved cam-wheel D, lever E, connecting-rods *e k*, arms G H, rocker-shaft *h*, and bed C, substantially as and for the purpose described.

Witness my hand this 26th day of July, A. D. 1875.

FRANCIS MEISEL.

In presence of—

P. E. TESCHEMACHER,  
W. J. CAMBRIDGE.