

J. Walton.
Damping Mach.
N^o 92,705. Patented Jul. 20, 1869.

Fig. 1.

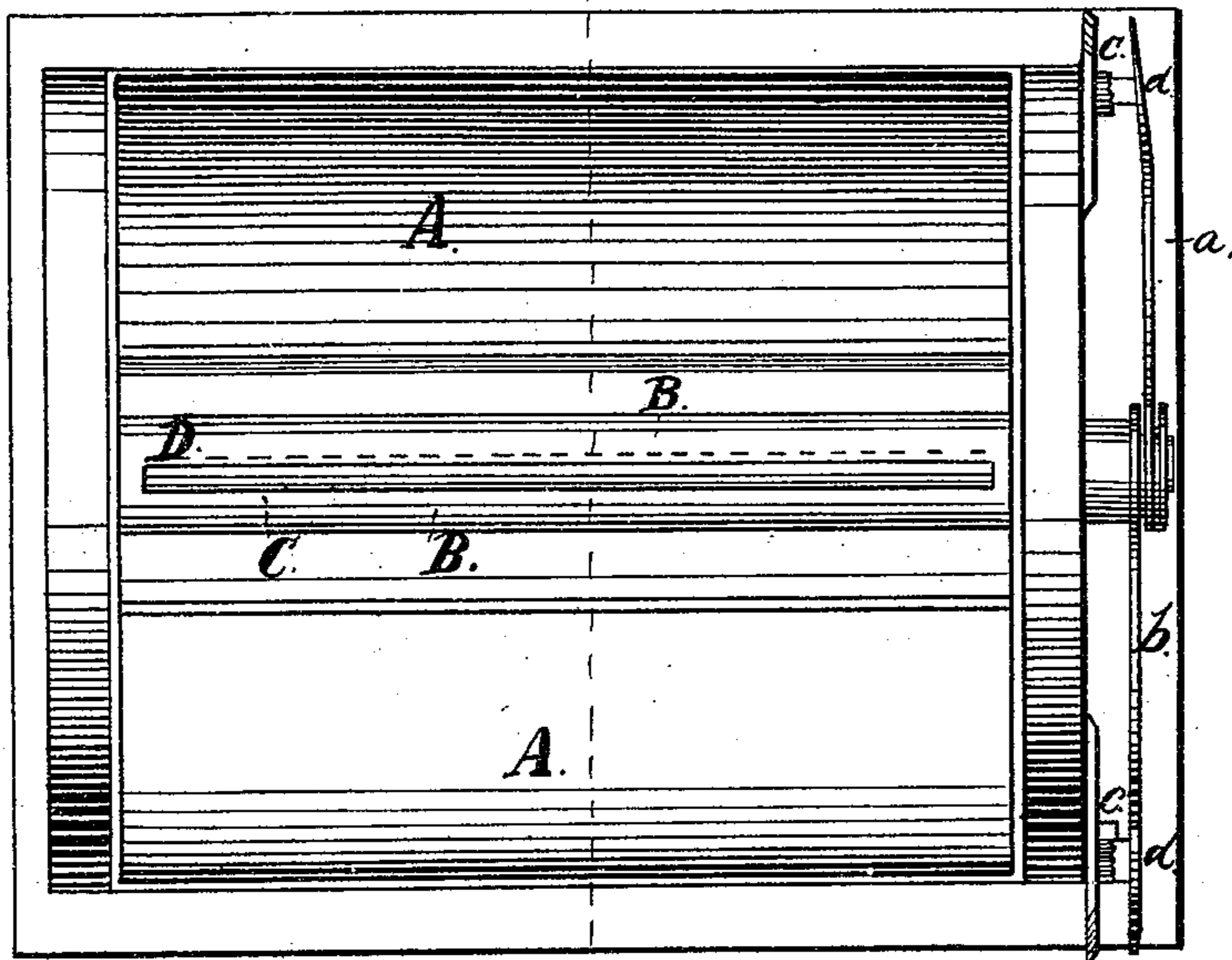


Fig. 4.

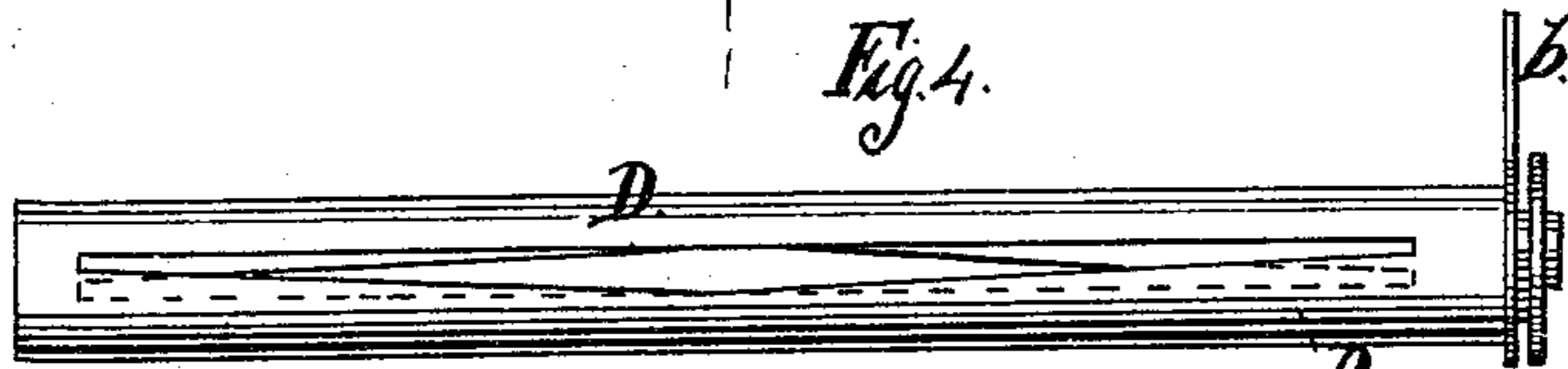
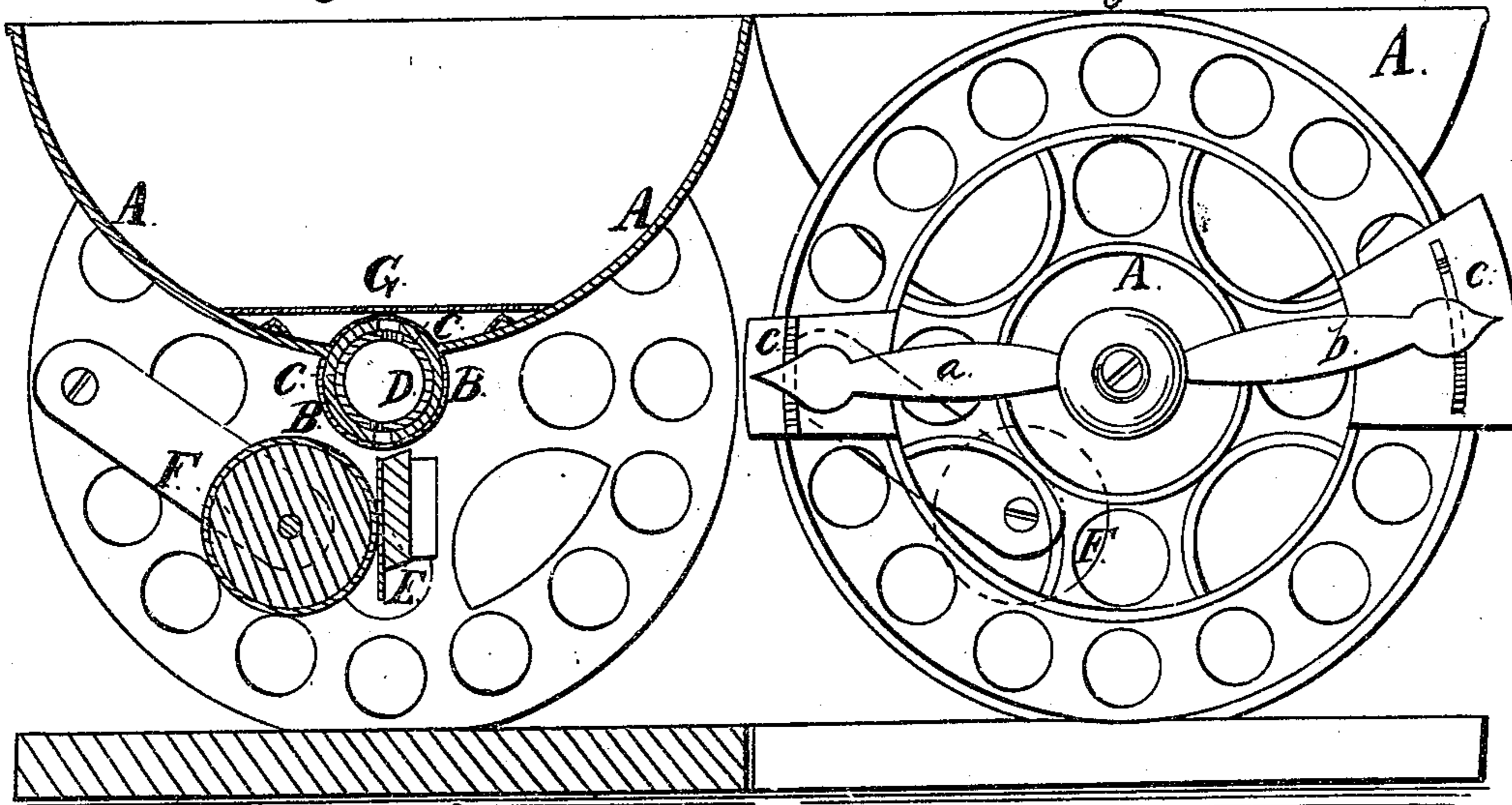


Fig. 3.

Fig. 2.



Witnesses
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IMPROVEMENT IN LITHOGRAPHIC PRESSES.

Specification forming part of Letters Patent No. 92,765, dated July 20, 1869.

To all whom it may concern:

Be it known that I, JONATHAN WALTON, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Dampening Attachment to Lithographic Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a plan or top view of my improved dampening attachment. Fig. 2 is an end view of the same. Fig. 3 is a vertical transverse section of the same. Fig. 4 is a detail plan view of the inner tube.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for dampening lithographic stones in printing-machines, and has for its object to regulate the amount of moisture imparted to the stone at each move, and also to adjust the device to longer or shorter stones.

A in the drawings represents the trough or vessel set up above the machine, so that the stone will pass back and forth under it. The bottom of this trough is formed by a tube, B, which has two longitudinal slots or rows of apertures, one on its upper and one on the lower side. Within this tube is arranged another tube, C, which has similar slots or rows of apertures, as B, on opposite sides, and which, although it fits tight into said outer tube, B, still can be turned in the same. It has on the outside of the trough a projecting handle, *a*, which serves to turn it, and also to indicate the position of its slots. Within the tube C is arranged a third close-fitting tube, D, which has also slots or rows of apertures on opposite sides, said slots having, however, each at least one V-shaped side, as in Fig. 4, to make the slot larger in the middle. The tube D has also a projecting handle, *b*, which also serves as index, as shown in Fig. 2. Under the pipe B is arranged a flat piece, E, of felt or other absorbing substance, while a felted or equiva-

lent roller, F, receives the moisture from E and transfers it upon the stone that passes under it. By turning the tube C the slots in B can be more or less closed to let more or less water from the trough to the absorber, or rather to let the water be absorbed quicker or slower, as may be desired. The index-hand *a* shows on a dial, *c*, how far the slot in B is opened, and may also, if provided with a tooth, *d*, that fits into one of a series of notches in *c*, serve to lock the tube in any desired position. By means of the tube D the length of slot is regulated in accordance with the length of stone, it being desirable that the roller F should only be dampened as far as required to dampen the stone. The inclined sides of the slots in D serve, as D is turned in C, to close the ends of the slots in C more or less, as in Fig. 1. The handle *b* of D can also be provided with a tooth, *d*, to lock the tube in any desired position. The moistening device is thus under the complete control of the attendant. The water may be cleaned more or less by being allowed to pass through a perforated plate, G, placed into the trough, as shown.

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

1. The slotted or perforated tubes D C B, arranged one within the other, and made adjustable to regulate the flow of water through them, substantially as herein shown and described.

2. The tube D, when provided with slots or rows of apertures, which have V-shaped sides, substantially as herein shown and described, to adjust the flow of water to the length of stone, as set forth.

3. The handles *a b* of the tubes C D, when arranged to serve as pointers, and also to lock the tubes in the various positions, substantially as herein shown and described.

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Witnesses:

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