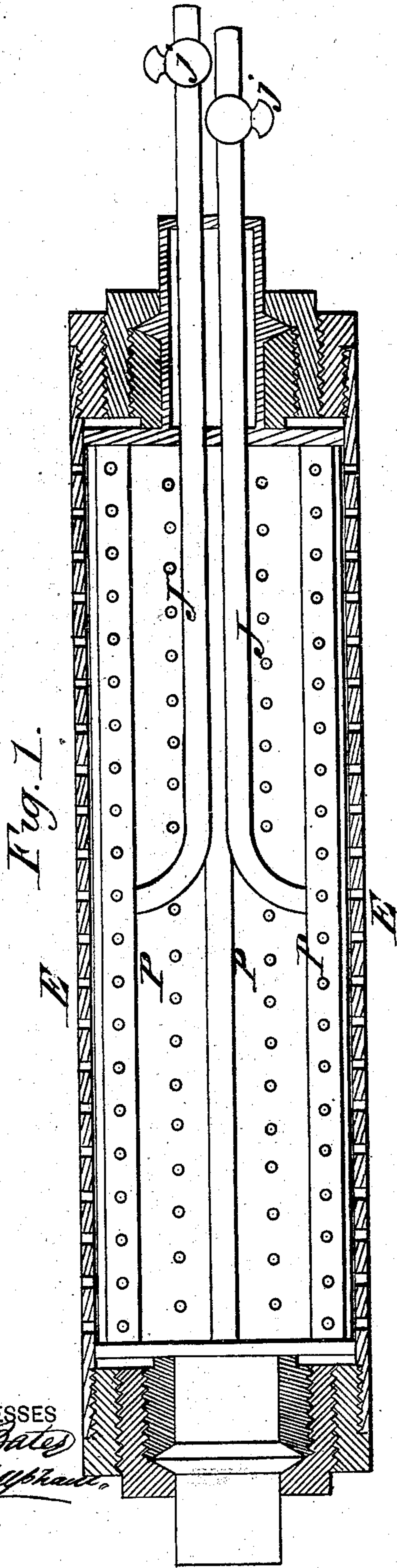


W. H. WOODCOCK.

DAMPING ROLLERS FOR LITHOGRAPHIC PRINTING.

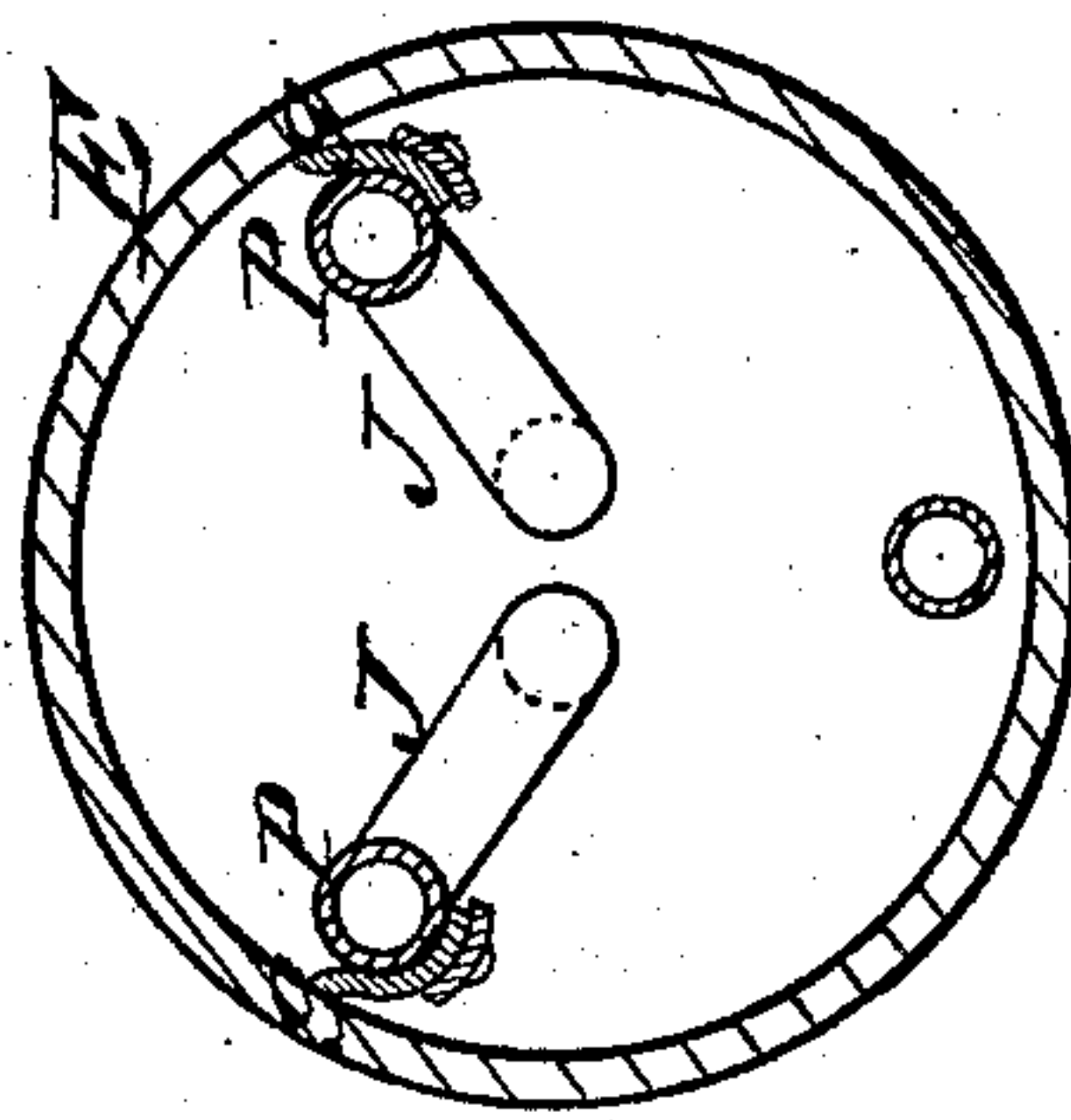
No. 189,828.

Patented April 17, 1877.



WITNESSES
E. H. Bates
George C. Upham

Fig. 2.



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WILLIAM H. WOODCOCK, OF WILLIAMSBURG, NEW YORK.

IMPROVEMENT IN DAMPING-ROLLERS FOR LITHOGRAPHIC PRINTING.

Specification forming part of Letters Patent No. **189,828**, dated April 17, 1877; application filed May 9, 1874.

To all whom it may concern:

Be it known that I, WILLIAM H. WOODCOCK, of Williamsburg, in the county of Kings and State of New York, have invented a new and valuable Improvement in Damping-Rollers for Lithographic Printing; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 is a sectional view of my lithographic damping-roller. Fig. 2 is a detail view.

This invention has relation to printing-presses wherein the impression-cylinders receive rotary motion, and the bed on which the "form," or the "stone," as the case may be, is supported, receives a rectilinear reciprocating motion beneath the said beds.

The nature of my invention and improvements consist in a hollow damping-roller or "rider," adapted to revolve about its axis, and suitably perforated, in combination with perforated pipes, which are arranged inside of the perforated cylinder, and supplied with water in regulated quantities by means of feed-pipes, as will be hereinafter explained.

It also consists in combining wipers with the internal perforated pipes, for the purpose of evenly distributing the water on the interior surface of the perforated cylinder.

In the annexed drawings, Figs. 1 and 2 show my improved damping-roller fully, which is a thickly-perforated cylinder, E, rotated by any suitable contrivance, and containing a number of perforated pipes, P, running from one end to the other of it, and closed at their ends. Each one of these pipes P is supplied

with water by means of a feed-pipe, J, which is provided with a cock, *j*, for regulating the supply of water. The pipes P and J are stationary, and the cylinder E revolves around them. I introduce the water into the pipes P at the middle of their length, so that it will flow in two directions. Outside of each pipe P I apply a wiper, *g*, which may be made of leather or other suitable material, and which is arranged so as to act on the inner side of the cylinder E, as shown in Fig. 3, and thereby distribute the water so that it will flow evenly through the perforations in the cylinder.

By means of this damping-roller I am able to uniformly dampen the surfaces of cloth-covered rollers, which apply the moisture to the form or the stone, as it reciprocates beneath them.

Since the filing of this specification a patent has been granted to me in England, which bears date April 14, 1875.

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

1. A revolving perforated damping-cylinder, E, in combination with stationary perforated pipes P and feed-pipes J, substantially as described.

2. Wipers *g* combined with stationary pipes P and revolving perforated damping-cylinder E, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM HENRY WOODCOCK.

Witnesses:

D. D. KANE,
GEORGE E. UPHAM.