

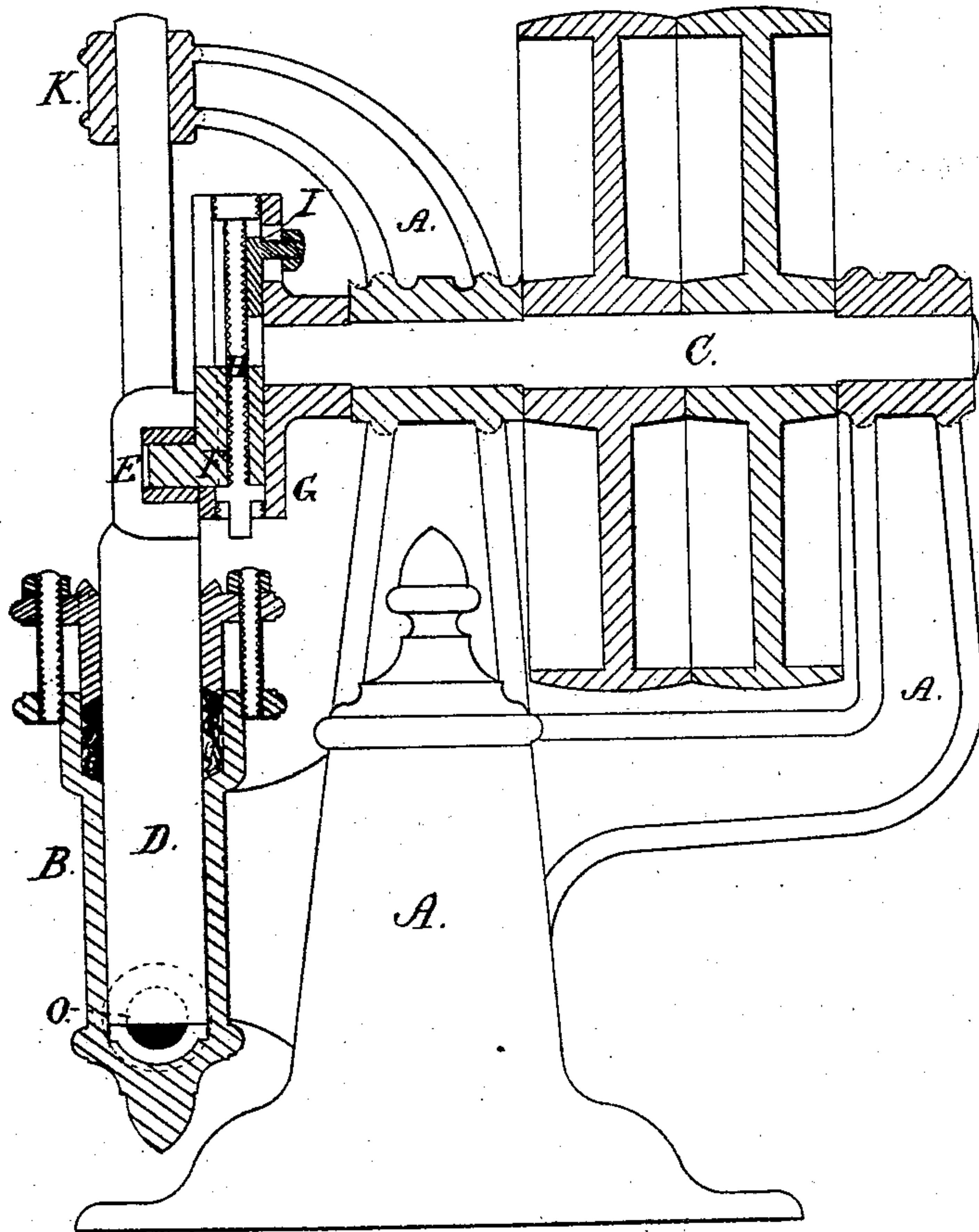
T. WORSWICK.

Devices for Converting Motion.

No. 151,949.

Patented June 9, 1874.

Fig. 1.



WITNESSES.

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UNITED STATES PATENT OFFICE.

THOMAS WORSWICK, OF GUELPH, CANADA.

IMPROVEMENT IN DEVICES FOR CONVERTING MOTION.

Specification forming part of Letters Patent No. **151,949**, dated June 9, 1874; application filed February 19, 1874.

To all whom it may concern:

Be it known that I, THOMAS WORSWICK, of Guelph, Province of Ontario, Canada, have invented a new and Improved Device for Converting Motion; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

My invention relates to the means of connection between a rotary shaft and reciprocating rod or pitman, whereby the stroke of the latter may be varied with convenience and dispatch.

In the drawing, the standard or frame A has three arms or branches that support a cylinder, B, shaft C, and plunger D. The shaft is arranged horizontally at right angles to the plunger, and carries an ordinary fast and loose pulley. The plunger has a slotted cross-arm or yoke, E. The wrist-pin F works in the slot of said yoke, and, as the head G fixed axially on the shaft C revolves, causes the reciprocation of the plunger. The wrist-pin is attached to a slide, which is adjusted in a diametrical slot in the face of the head G by means of a screw, H, that passes through it. Thus the distance between the wrist-pin and shaft or axis C may be increased or diminished at pleas-

ure, and the throw of the plunger correspondingly regulated. I is a stop for the pin F, which is adjustable by a nut screwed on a stem projecting through a slot in the wrist-pin plate. The position of this stop-piece indicates the adjustment of the pin F for ordinary work—say, for running a pump. The pin may, however, be adjusted outward from the shaft C, to increase the length of stroke of the plunger, and thereby the quantity of water thrown, in a given time. When the pin is adjusted back in contact with the stop I the action goes on as before. Thus said stop saves time and labor, which would be otherwise uselessly expended at every change of the adjustment of the wrist-pin.

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

The combination, with the slotted reciprocating yoke E and revolving slotted plate G, of the wrist-pin F, adjusting-screw H, and stop I, said screw being arranged in a diametrical slot of the plate, as shown and described, for the purpose specified.

THOS. WORSWICK.

Witnesses:

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