J. HAMBITZER:

Cut-Offs for Conducting Pipes.

No. 154,477. Patented Aug. 25, 1874.

Fig. 1.

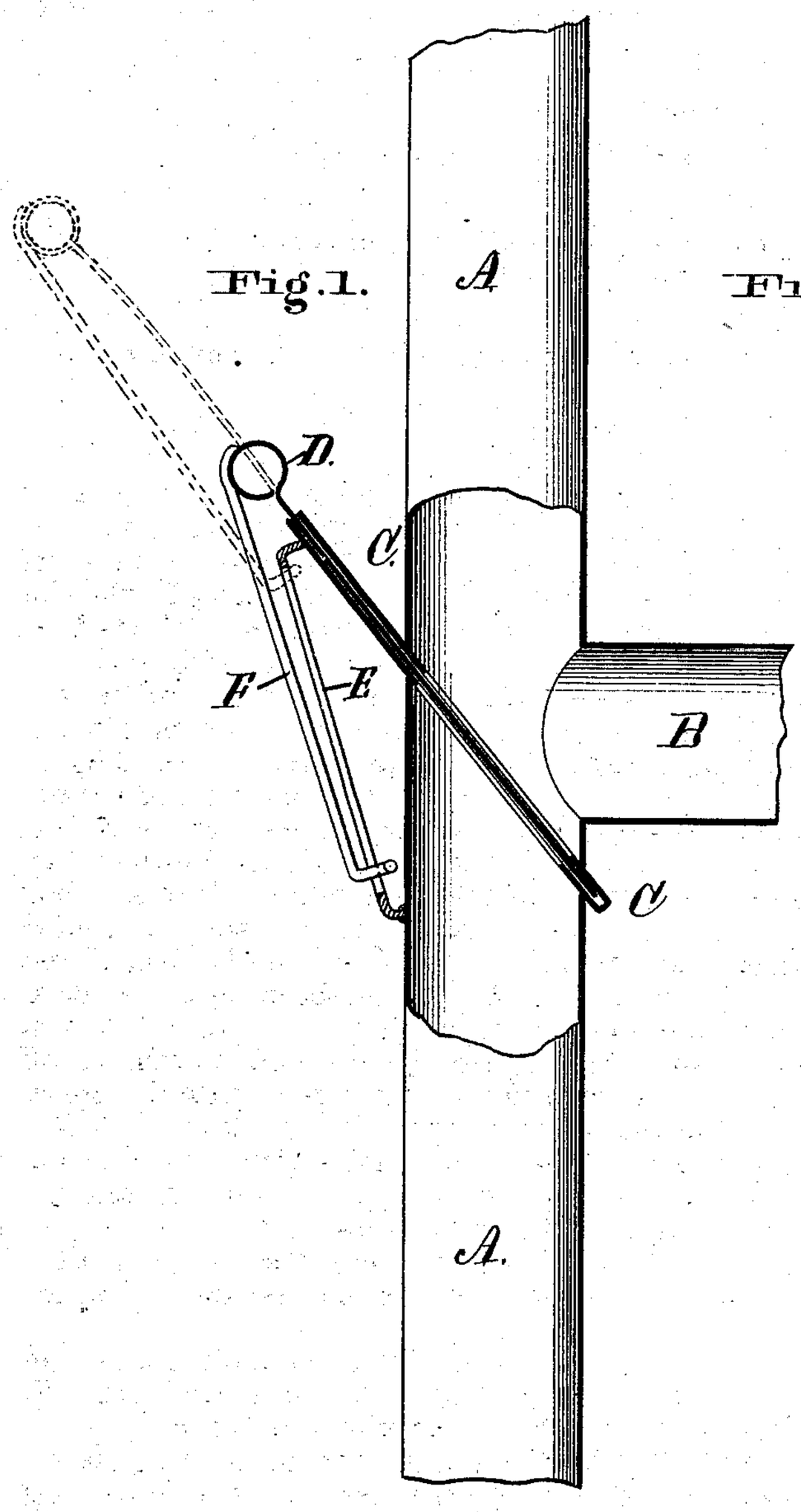

Fig. 2.

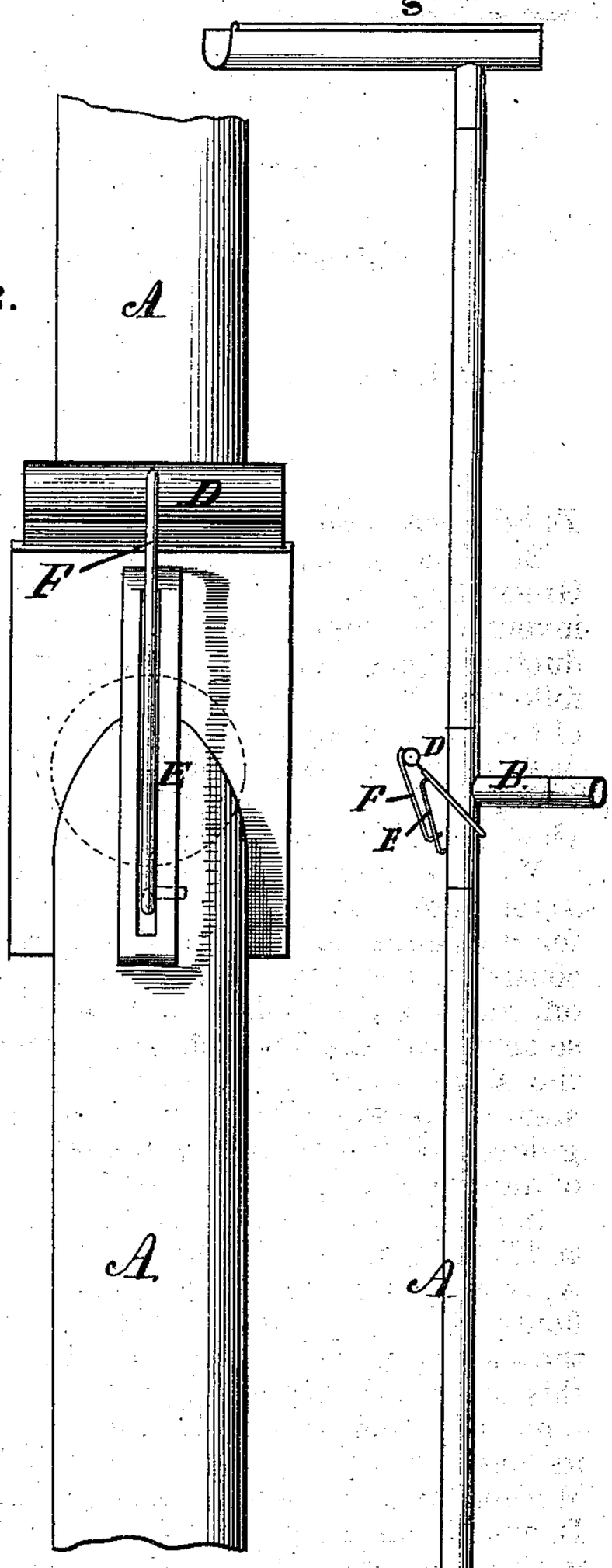

Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH HAMBITZER, OF GREEN BAY, WISCONSIN.

IMPROVEMENT IN CUT-OFFS FOR CONDUCTING-PIPES.

Specification forming part of Letters Patent No. **154,477**, dated August 25, 1874; application filed June 10, 1874.

To all whom it may concern:

Be it known that I, JOSEPH HAMBITZER, of Green Bay, Brown county, Wisconsin, have invented an Improvement in Cut-Offs for Conducting-Pipes; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a sectional view, Fig. 2 is a rear view, and Fig. 3 a perspective view, in place.

My invention relates to the construction of a stop-gate or cut-off for rain-water conductors for dwellings and for other purposes; and it consists in constructing the sliding gate or cut-off, which is placed diagonally across the pipe, so as to lead the fluid into the branch pipe at the angle where it is connected to the main stem to operate within a box, said gate being guided and limited in its movements by means of an arm sliding in a slotted brace.

In the drawing, A represents the main tube, and B the branch. Diagonally across the tube A, cutting it in two parts, is a box, C, made fluid-tight, except, of course, at the top, where the slide D enters. There is an orifice through this box nearly the size of the interior of the pipe. Through this orifice the fluid passes in its uninterrupted passage through the pipe. Within this box C slides the solid slide or gate D, cutting off the passage of the fluid when it is closed in, and allowing it to pass on when it is withdrawn. To prevent the gate from drawing entirely out of the box there is placed behind the pipe A and box C a brace, E, slotted a proper distance, so as to allow the gate C to rise to a sufficient height to entirely open the orifice in the box and no more, and moving in an opposite direction sufficiently far to entirely close it. Attached to the gate D is an arm, F, having a hook or button upon its lower end, which arm freely slides in the slot of the brace E and regulates the motion of the gate or cut-off D, as above described.

The operation of my device is as follows: Having made the necessary branches in the conductor for rain-water upon a dwelling or other house, or the conducting-tubes of a grain-elevator or any similar device, I apply my box C to the pipe near the angle, as shown in Fig. 3, cutting the pipe diagonally. Into said box C operates the cut-off gate or slide D, guided and limited in its action by the arm F and slotted brace E. When the occupant of either story of a house wishes to intercept the rain-water passing through the conductor the cut-off is closed, and the water flows into the apartment, and upon opening it the water will flow on. In the same manner grain may be conducted in an elevator, or liquors in tanning, soap, and other factories.

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

In combination with a conducting-pipe, the box C, slide D, arm F, and slotted brace E, substantially as shown and described.

The above specification of my said invention signed and witnessed at Green Bay, Wisconsin, this 19th day of May, A. D. 1874.

JOSEPH HAMBITZER.

Witnesses:
C. BERNER,
PAUL RAX.