T. B. SWAN & E. F. EDGECOMB.

ROTARY-PUMP.

No. 191,727. Patented June 5, 1877.

Fig. 1.

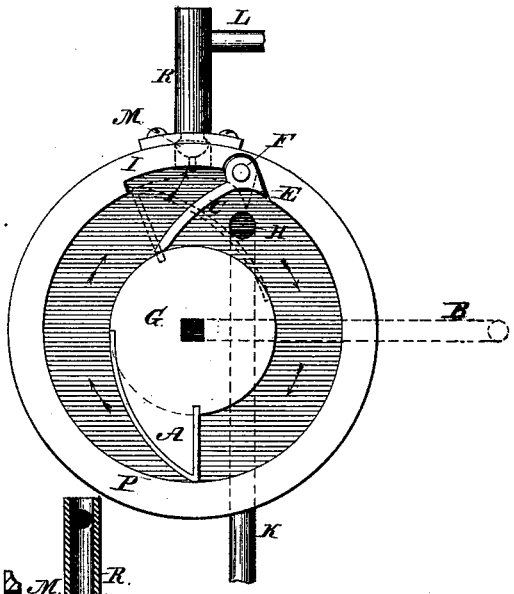


Fig. 2.

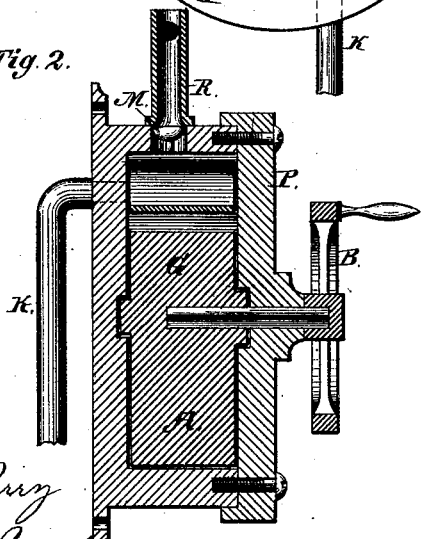
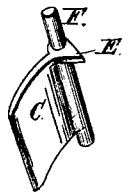


Fig. 3.



Attest.

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UNITED STATES PATENT OFFICE.

THOMAS B. SWAN, OF MINOT, AND EDWARD F. EDGECOMB, OF POLAND, MAINE; SAID EDGECOMB ASSIGNOR TO SAID SWAN.

IMPROVEMENT IN ROTARY PUMPS.

Specification forming part of Letters Patent No. **191,727**, dated June 5, 1877; application filed April 2, 1877.

To all whom it may concern:

Be it known that we, THOMAS B. SWAN, of Minot, in the county of Androscoggin and State of Maine, and EDWARD F. EDGECOMB, of Poland, in said county and State, have invented a new and useful Improvement in Rotary Pumps, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

The drawing represents the pump with the end of the barrel next to the crank removed.

The object of our invention is to rapidly raise water by the combination, in a rotary pump, of a circular barrel, P, with its valve M and aperture H, and slot I, and swinging curved wing or valve C, with its curved catch or projection E, with the cylinder G and paddle A.

By turning the crank B the cylinder G, with the triangular and curved paddle A, is revolved in the barrel P. When the curved side of the paddle A touches the curved wing or valve C, which swings on the pivot F, it lifts the valve C into the slot I, at the same time forcing the catch E of the valve C from the slot I, when the valve C is lifted into the slot I. The paddle A then passes under the valve C and strikes the catch E, pushing it back into the slot I, and at the same time forcing the valve C from the slot I down into the cylinder G. The paddle A then forces the water against the valve C, through the valve M, into the tube R. At the same time the water is ucked up the tube K, through the apertures H, into the barrel P.

We do not desire to be confined to the precise construction herein described and shown, as this may be varied by those skilled in the art without departing from the principle of this invention.

We claim as our invention—

1. The swinging curved valve C and its catch E, adapted to be used in a rotary pump, substantially as specified.

2. The combination, with a revolving paddle, of the swinging curved valve C and its catch E, substantially as specified.

3. In a rotary pump, the combination, with a swinging valve and catch, of an angular curved paddle, A, substantially as specified.

4. The combination, with the barrel P, slotted at I, of the swinging curved valve and its catch, and the rotating cylinder, having the curved angular paddle A, substantially as specified.

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Witnesses:
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