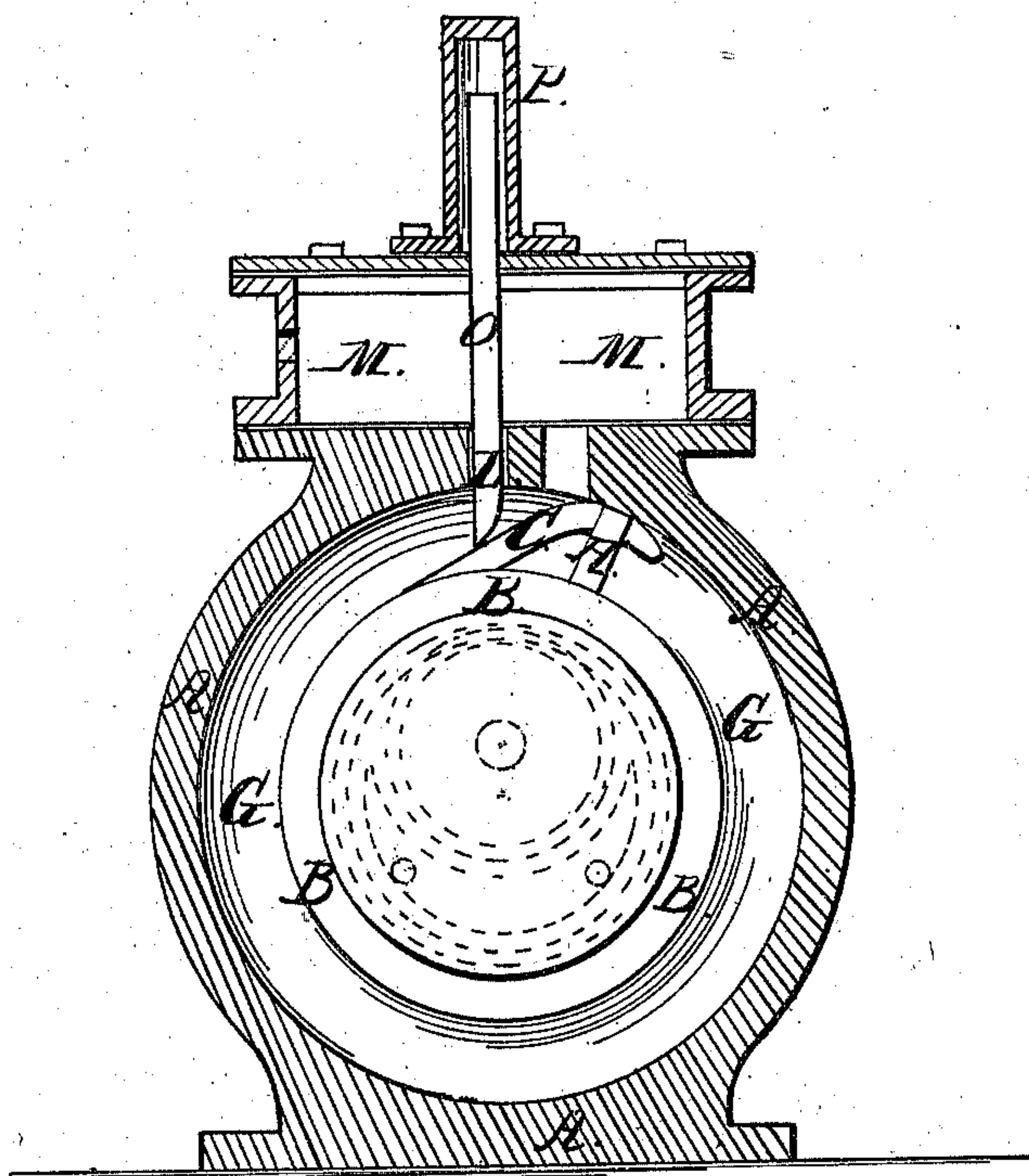


J. Poyne,
Rotary Pump,
N^o 81,681. Patented Sep. 1, 1868.



Witnesses:
Wm A. Morgan.
J. C. Cotton.

Inventor:
John Poyne.
per Munn & Co
Attorneys

United States Patent Office.

JOHN POPPE, OF GREEN POINT, NEW YORK.

Letters Patent No. 81,681, dated September 1, 1868.

IMPROVEMENT IN PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN POPPE, of Green Point, in the county of Kings, and State of New York, have invented a new and useful Improvement in Rotary Pumps; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

The figure is a detail view of a portion of my improved pump, illustrating my improvement.

My invention has for its object to simplify the construction and improve the operation of my improved rotary pump, patented December 5, 1867, and numbered 71,786.

And it consists in the construction and combination of the parts by means of which the drop-valve or gate is operated, as hereinafter more fully described.

A represents one side of the flanged outer case of the pump.

B represents the interior wheel to which the valve H is attached, and by which said valve is carried around through the circular tubular channel G.

C is an inclined arm, attached to the valve H, and to the wheel B, so that when the valve H is carried around to the valve-plate L, the said inclined arm C will raise the said valve-plate L, allowing the said valve H to pass the said valve-plate L, as shown in the figure.

The stem O of the valve-plate L passes up through the discharge-chamber M, and its upper end enters and works in a water-tight socket or recess, P, attached to the top plate of the discharge-chamber M, as shown in the drawing.

N is the discharge-orifice of the discharge-chamber M, which may be formed through the end, side, or top of said chamber M, as circumstances may require or render advisable.

By this construction, the complicated arrangement described in patent No. 71,786 is rendered wholly unnecessary, thus simplifying the construction of the pump, and at the same time increasing its efficiency.

I claim as new, and desire to secure by Letters Patent—

The combination of the inclined arm C, with the valve H, wheel B, and valve-plate L, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this 9th day of June, 1868.

JOHN POPPE,

Witnesses:

FRANK BLOCKLEY,
JAMES T. GRAHAM.