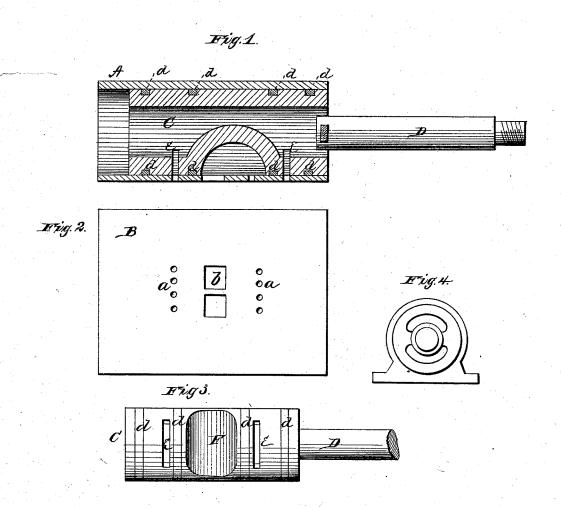
J. STREILY. Slide-Valve.

No. 209,305.

Patented Oct. 22, 1878.



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UNITED STATES PATENT OFFICE.

JOSEPH STREILY, OF VINCENNES, INDIANA, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHN T. YOUNG, OF SAME PLACE.

IMPROVEMENT IN SLIDE-VALVES.

Specification forming part of Letters Patent No. 209,305, dated October 22, 1878; application filed June 26, 1878.

To all whom it may concern:

Be it known that I, JOSEPH STREILY, of Vincennes, in the county of Knox and in the State of Indiana, have invented certain new and useful Improvements in Balanced Cylinder Slide-Valves; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of balanced slide-valve and valve-chest, as will be herein-

after more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the an-

nexed drawings, in which—
Figure 1 is a longitudinal section of the valve and chest. Fig. 2 is a bottom view of the chest. Fig. 3 is a bottom view of the valve. Fig. 4 is an end view of the valve

and chest.

A represents a cylindrical valve-chest of suitable dimensions, provided with a flange, B, at the bottom for fastening the chest to the

steam-cylinder.

a a are the steam-ports, and b the exhaustport. These ports are formed with bridges across, as shown in Fig. 2, to prevent the packing-rings on the piston from passing into the same.

C represents the piston or valve, made in

cylindrical form and fitting the interior of the chest A. This valve is open at both ends, and provided at one end with a suitable crossbar, or its equivalent, for securing the valverod D.

Around the outside of the valve C is made a series of grooves, in which are placed pack-

ing-rings d, to form steam-tight joints.

The valve C is in the center, in its under side, provided with an arch, F, which forms the exhaust-port of the valve, and on each side of this port is a steam-inlet port, e. This cylindrical valve operates the same as an ordinary slide-valve; but it is perfectly balanced. as the steam-pressure is altogether on the inside, and hence acts equally in all directions, and will not force the valve hard down on its

Having thus fully described my invention, what I claim as new, and desire to secure by

Letters Patent, is—

The cylindrical valve C, open at both ends and provided with exterior packing-rings d, arch F, and ports e, in combination with the chest A, having ports a a and b, provided with bridges across the same, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of

May, 1878.

JOSEPH STREILY.

Witnesses:

SAM. W. WILLIAMS. JOHN T. YOUNG.