

J. F. COCK.
VALVE-SEAT.

No. 185,496.

Patented Dec. 19, 1876.

Fig. 1.

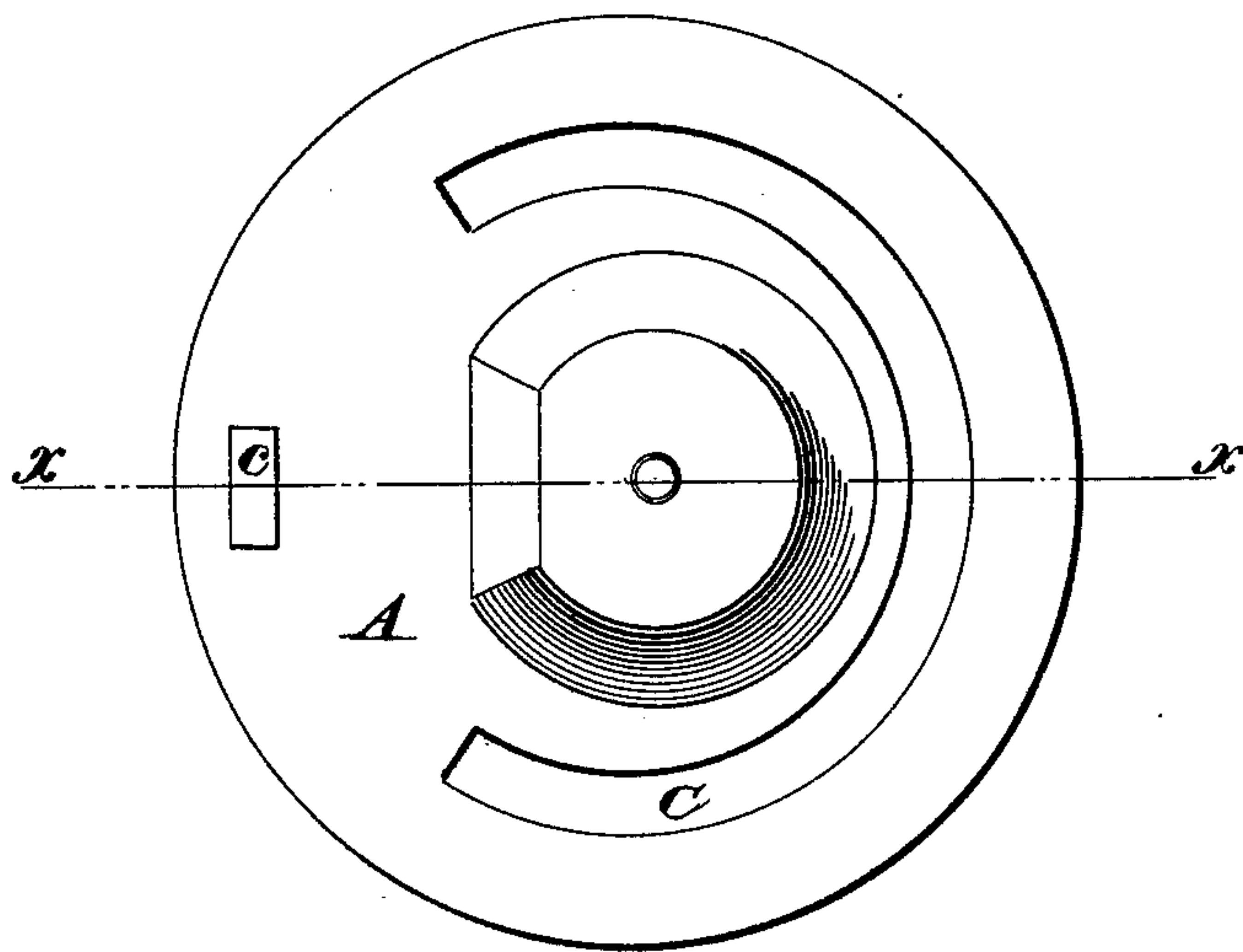
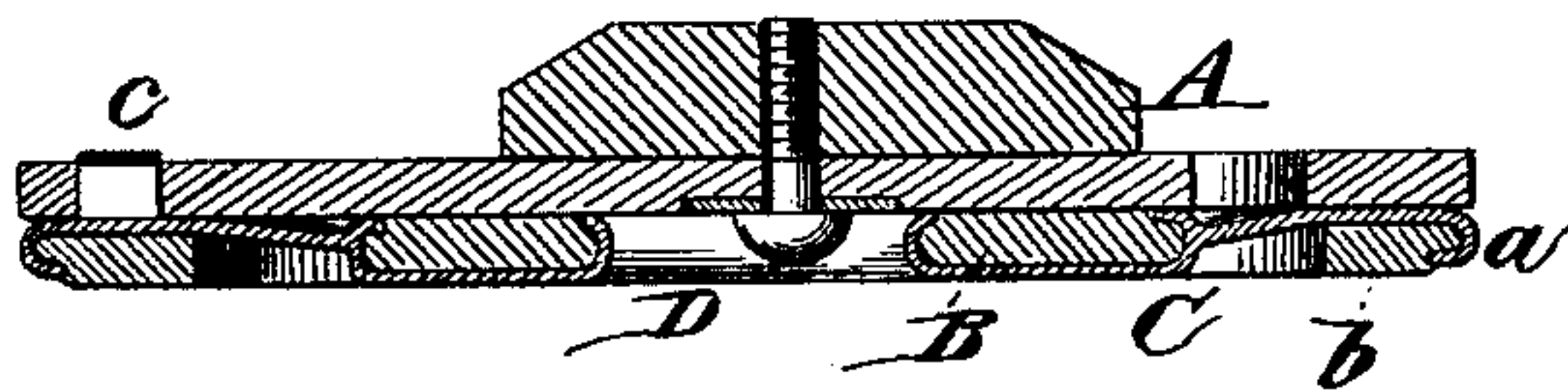


Fig. 2.



WITNESSES:
Gustave Dietrich
J. H. Scarborough

INVENTOR:
Jacob F. Cock
BY *Munn & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE

JACOB F. COCK, OF ROCKVILLE CENTRE, NEW YORK.

IMPROVEMENT IN VALVE-SEATS.

Specification forming part of Letters Patent No. **185,496**, dated December 19, 1876; application filed October 7, 1876.

To all whom it may concern:

Be it known that I, JACOB F. COCK, of Rockville Centre, in the county of Queens and State of New York, have invented a new and Improved Valve-Seat, of which the following is a specification:

Figure 1 is a plan view. Fig. 2 is a transverse section on line *xx* in Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to improvements in the valve-seats of ordinary lifting or forcing pumps; and it consists in providing a valve-seat of leather or other elastic or yielding material, placed in a channel cut in the bottom of the pump-cylinder around the valve-opening, or placed in a channel in an annular plate, which may also contain the packing for the lower end of the pump-cylinder, and to which the valve may be attached.

The object of the invention is to provide a valve-seat which shall not readily wear, and which will permit the valve to close tightly, and which may be readily repaired.

In the drawing, A is the ordinary weighted flap-valve, and B is a valve-seat, consisting of leather, rubber, or other elastic or yielding material, which, in the present case, is fitted to an annular channel in the metallic plate C, which surrounds the valve-opening D in the said plate. The plate C has the same diame-

ter as the disk in which the valve A is formed, and its edge is turned under at *a*, forming a groove, in which a packing-ring, *b*, is placed. The valve A is attached to the plate C by the clip *c*. In this case the valve-seat and pump-packing are attached together in convenient form for attachment to any pump; but I do not limit myself to this construction.

In applying my invention to new pumps, in the process of manufacture I groove the valve-seat or lower portion of the pump-cylinder around the valve-opening, and place in it the rubber or leather valve-seat B.

The arrangement first described is adapted to repairs, and to pumps made in the ordinary manner.

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

1. The combination of the yielding valve-seat B, plate C, packing-ring *b*, and the valve A, substantially as and for the purpose herein shown and described.

2. The combination of the yielding part B with the ordinary valve-seat of a pump, the same being grooved to receive the part B, substantially as set forth.

JACOB F. COCK.

Witnesses:

GEO. M. HOPKINS,
C. SEDGWICK.