J. F. COCK. VALVE-SEAT.

No. 185,496.

Patented Dec. 19, 1876.

Fig. 1.

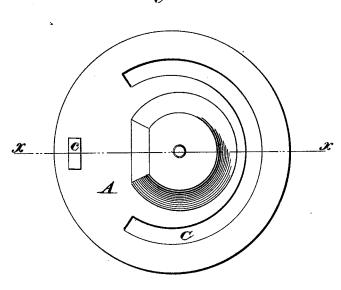
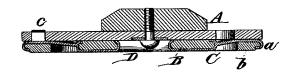


Fig. 2.



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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 trans-

verse section on line x x in Fig. 1.

Similar letters of reference indicate corre-

sponding parts.

My invention relates to improvements in the valve-seats of ordinary lifting or forcing pumps; and it consists in providing a valveseat 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 pumppacking 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 valveseat 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 Pat-

ent-

1. The combination of the yielding valveseat 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.