

(No Model.)

J. O'NEIL.
VALVE FOR OIL WELL PUMPS.

No. 502,750.

Patented Aug. 8, 1893.

Fig. 1.

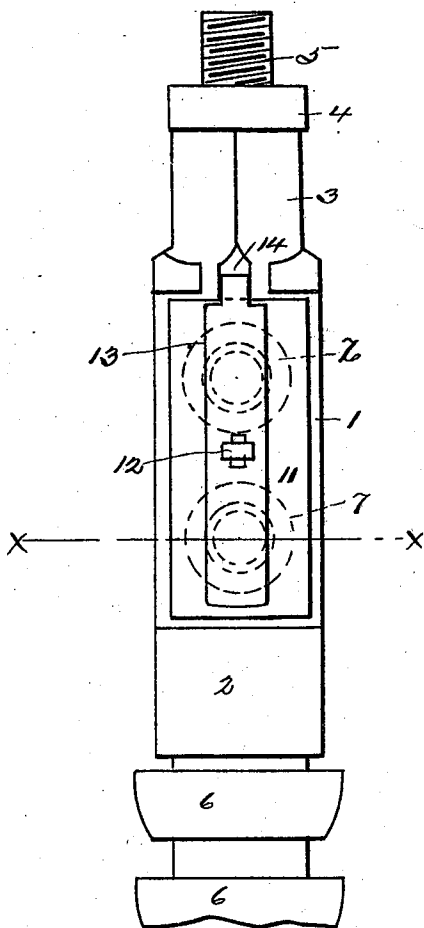


Fig. 2.

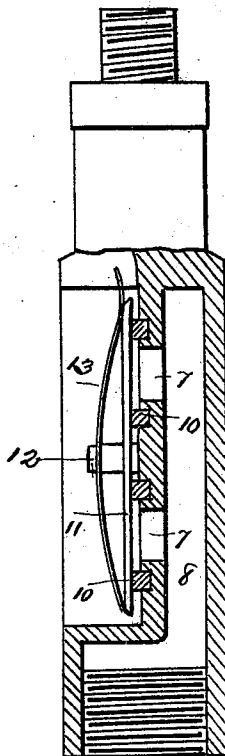


Fig. 4.

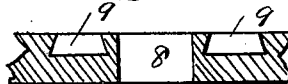
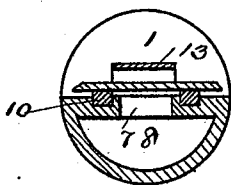


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH O'NEIL, OF TAYLORSTOWN, PENNSYLVANIA.

VALVE FOR OIL-WELL PUMPS.

SPECIFICATION forming part of Letters Patent No. 502,750, dated August 8, 1893.

Application filed March 6, 1893. Serial No. 464,881. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH O'NEIL, a citizen of the United States, residing at Taylors-town, in the county of Washington and State
5 of Pennsylvania, have invented certain new and useful Improvements in Valves for Oil-Well Pumps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others
10 skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved check
15 valve for oil well and other pumps, and consists in certain details of construction, and combination of parts as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is
20 a front elevation of my improved valve which is constructed in accordance with my invention, and showing a portion of the sucker cups attached in position at the lower end. Fig. 2 is a sectional side elevation of the same.
25 Fig. 3, is a sectional plan view taken on the line X—X of Fig. 1. Fig. 4 is an enlarged sectional view taken through one of the valve openings, showing the means of holding the washers therein.

30 To put my invention into practice I provide a casting 2 having an internal opening 8, a recess 1, formed at either side, a square portion 3 for applying a wrench, a male threaded portion 5 at the top to connect the
35 same to the sucker rods, and a female thread formed at the base of the opening 8, to attach the same to the sucker cups 6. Formed in the recess 1 are two or more openings 7 com-

municating with the interior, and each of the said openings surrounded with annular re-
cesses 9, having inwardly tapering sides, whereby a flexible washer 10, after being
forced in position will remain fast. These openings 7 are covered by a plate 11, held
loosely in position by means of a flat spring
45 13, which in its turn is held by a short post 12, attached to the casting. This spring is prevented from turning by one end entering a recess 14 formed at the base of the square
portion 3. This valve thus constructed is op-
50 erated in the working barrel in the same manner as those now in common use, and being simple in its construction will not get out of repair.

Having thus described my invention, I 55 claim—

The herein described working check valve for oil and other pumps, consisting of the shell 2, having a recess 1 formed at one or more sides of the same, the valve openings 7
60 formed in the said recess, the washers 10 surrounding said valve, the annular recesses 9 having inwardly tapering sides to confine the said washers, the plate 11 covering the said
valve openings, the spring 13 and means for
65 holding the same in position, and means for preventing the said spring from turning, all arranged and combined for service, substantially as and for the purpose described.

In testimony that I claim the foregoing I 70 hereunto affix my signature this 10th day of December, A. D. 1892.

JOSEPH O'NEIL. [L. s.]

In presence of—

ALBERT J. WALKER,
M. E. HARRISON.