

M. T. CHAPMAN & M. C. CHAPMAN.

Adjustable Valves for Bored or Driven Wells.

No. 136,412.

Patented March 4, 1873.

Fig. 1.

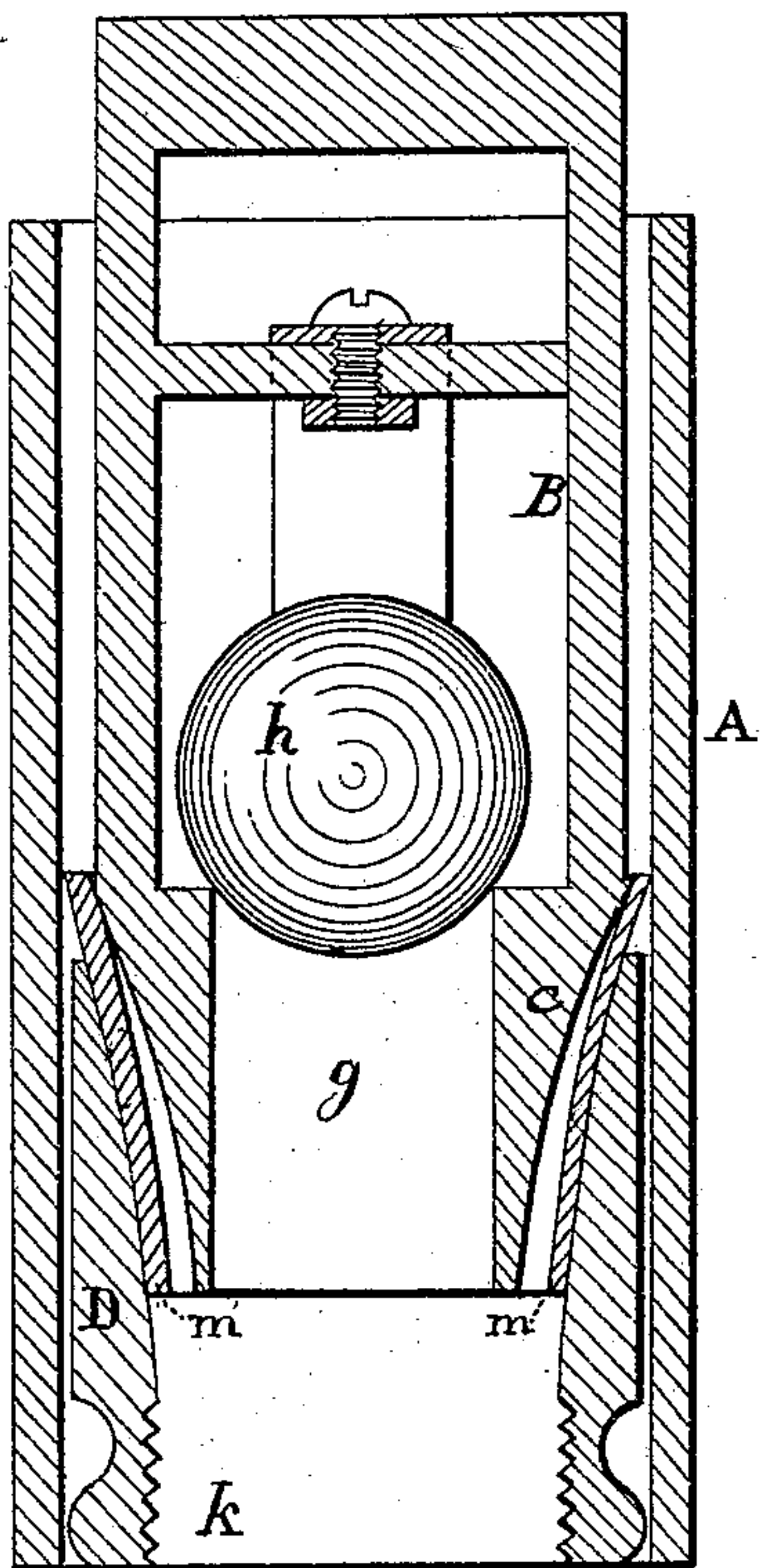


Fig. 2.

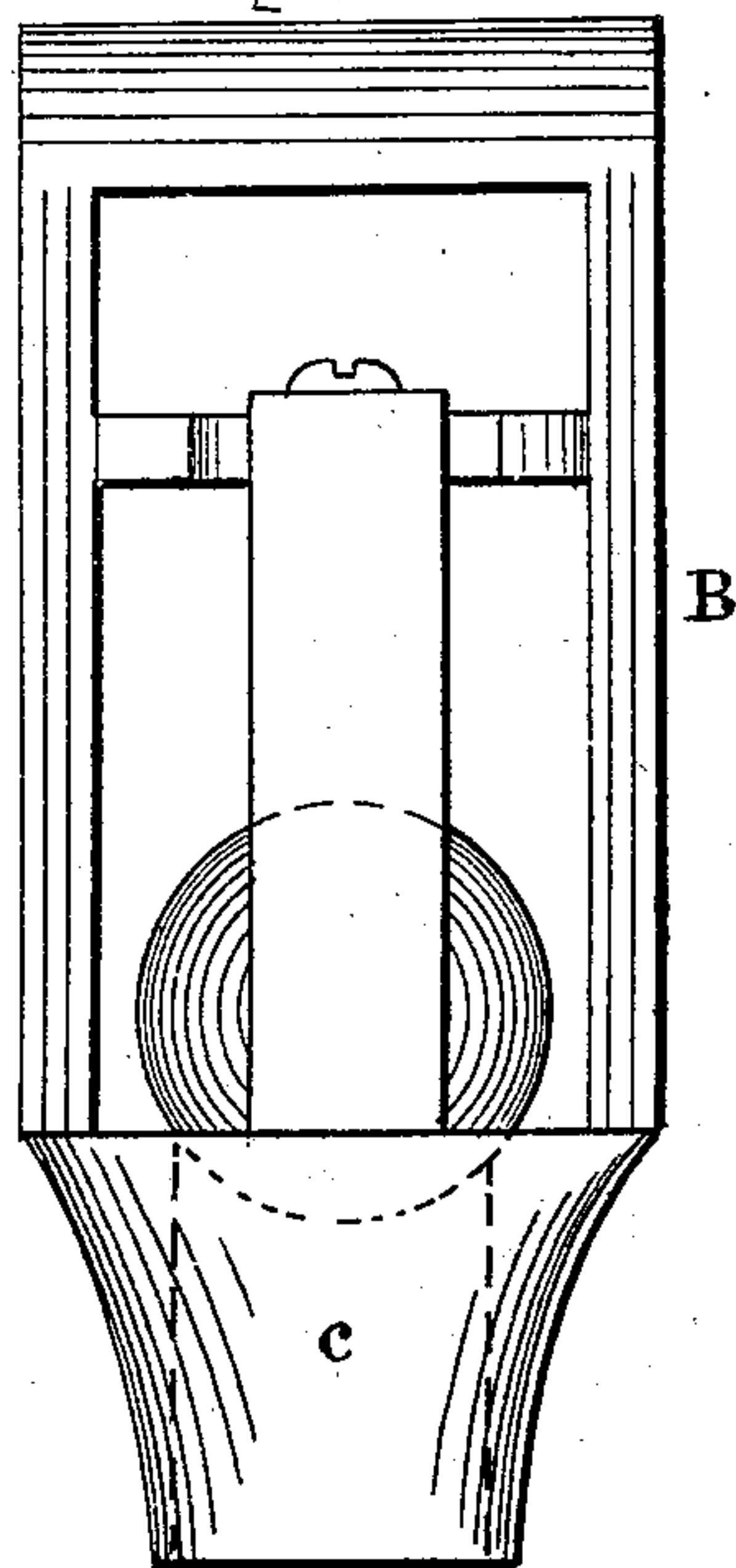
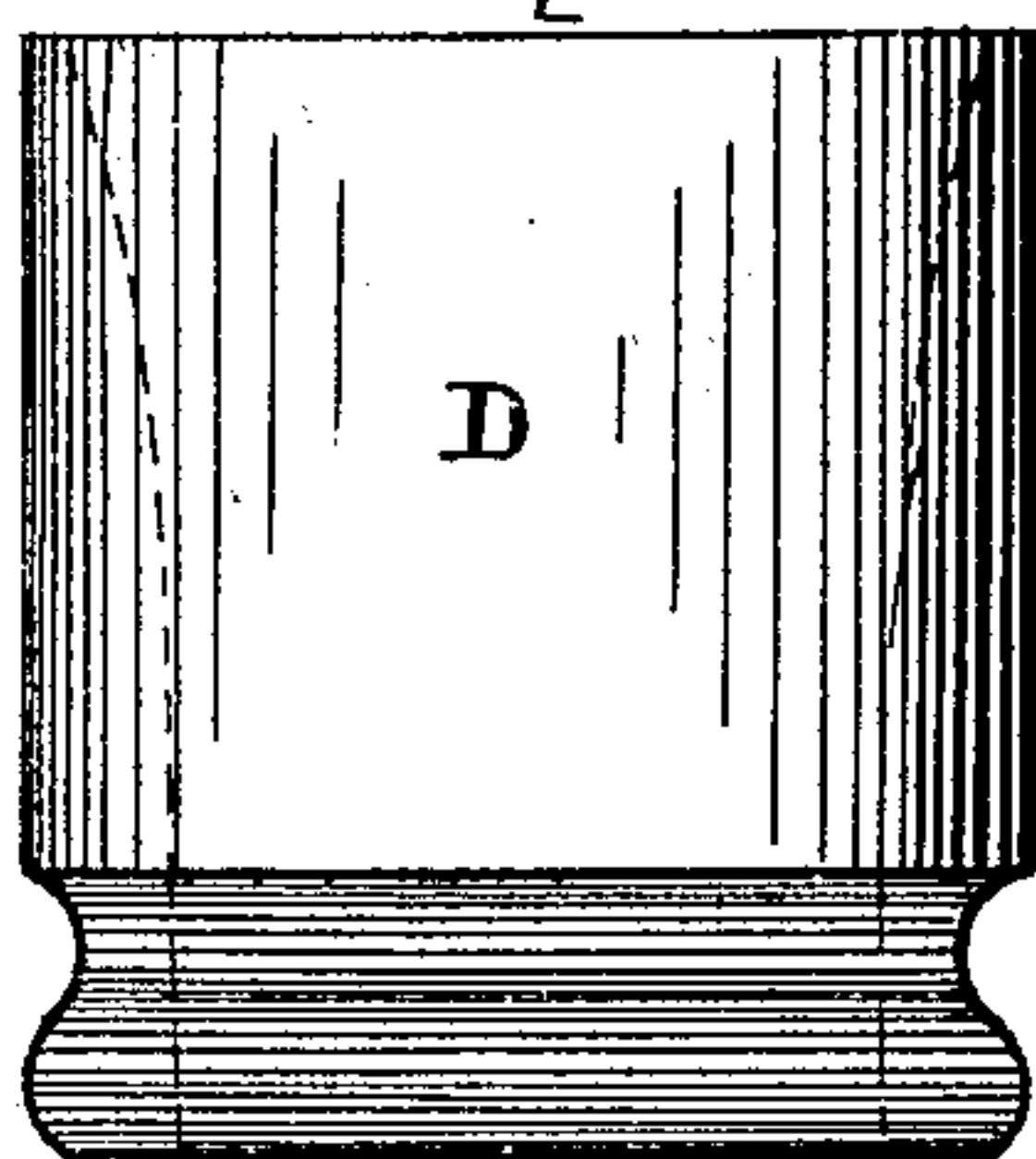


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

MATTHEW T. CHAPMAN AND MARK C. CHAPMAN, OF AURORA, ILLINOIS.

IMPROVEMENT IN ADJUSTABLE VALVES FOR BORED OR DRIVEN WELLS.

Specification forming part of Letters Patent No. 136,412, dated March 4, 1873.

To all whom it may concern:

Be it known that we, MATTHEW T. CHAPMAN and MARK C. CHAPMAN, of Aurora, county of Kane and State of Illinois, have invented an Improved Adjustable Valve for Driven or Bored Wells. The following description, taken in connection with the accompanying plate of drawing hereinafter referred to, forms a full and exact specification, wherein are set forth the nature and principles of the invention, by which the same may be distinguished from others of a similar class, together with such parts thereof as are claimed as new and are desired to be secured by Letters Patent of the United States.

Our invention relates to that class of machines made use of for raising water, commonly known as driven wells; and the nature thereof consists in certain improvements in the details of the construction of the same, hereinafter described and shown.

In the accompanying plate of drawing, which illustrates our invention and forms a part of the specification thereof, in which corresponding parts are illustrated by similar letters—

Figure 1 is a transverse vertical section. Fig. 2 is a view of the drop-valve. Fig. 3 illustrates the coupling.

The construction, operation, and relative arrangement of the component parts of our invention are as follows:

In the drawing referred to, A designates the tube, within which the valve-socket B, provided with a tapering or quasi-conical base, C, is

so fitted that it may be moved upward or downward with facility. The said socket *c* is also provided with a cylindrical aperture, *g*, through which the water rises, and spherical valve *h* resting upon the top of the said aperture. The coupling D has a thread cut in the bottom of the aperture *k* for the purpose of attaching a strainer, and the upper side thereof has the form of an inverted cone, and is provided with the packing *m*.

When the tube A has been sunk to a sufficient extent to obtain water the coupling D with a perforated tube attached thereto is inserted therein. The said coupling, through the agency of the packing *m*, forms a tight joint with valve-socket B, and when the said valve-socket is pressed hard against the packing it causes the coupling to become firmly secured to the tube A.

Having thus described the construction and operation of our invention, we claim and desire to secure by Letters Patent—

The combination of the tube A, valve-seat B, coupling D, and packing *m*, all constructed and arranged for operation, as shown, and for the purposes described.

In testimony that we claim the foregoing we have hereunto set our hands this 9th day of November, 1872.

MATTHEW THOMAS CHAPMAN.

MARK CHAS. CHAPMAN.

Witnesses:

GEO. LOUCKS,

JAS. A. BLAIR.