(No Model.)

J. H. SOLIS.

COCK.

No. 265,168. Patented Sept. 26, 1882.

Fig: 1.

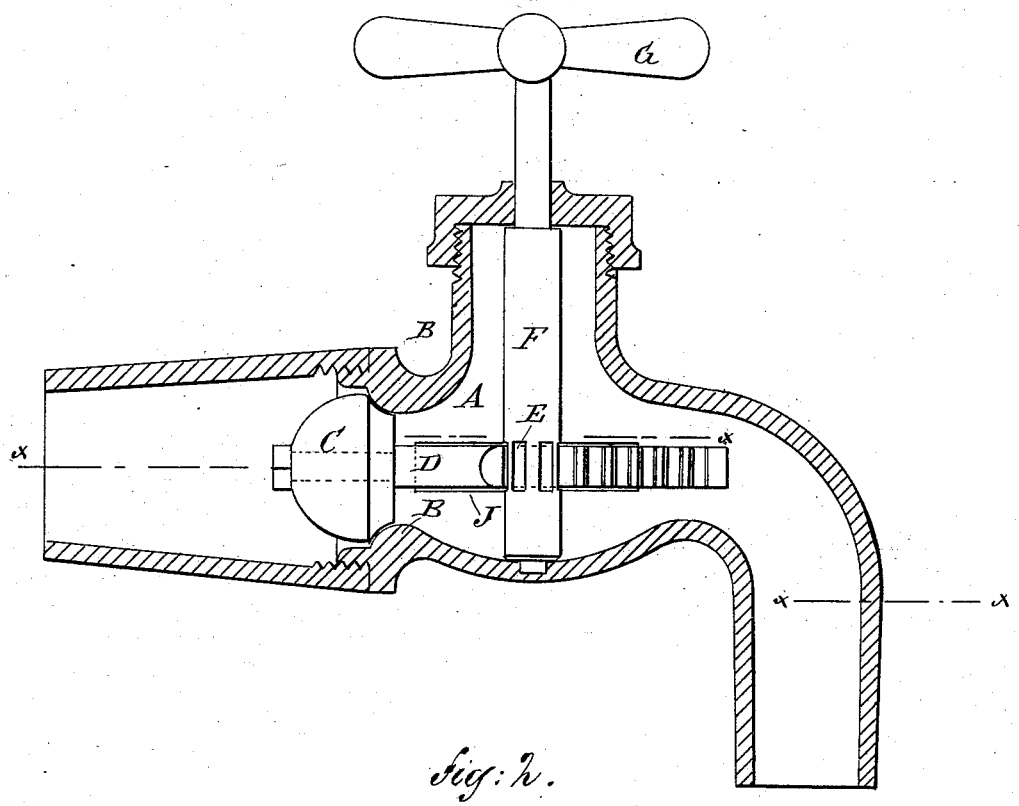
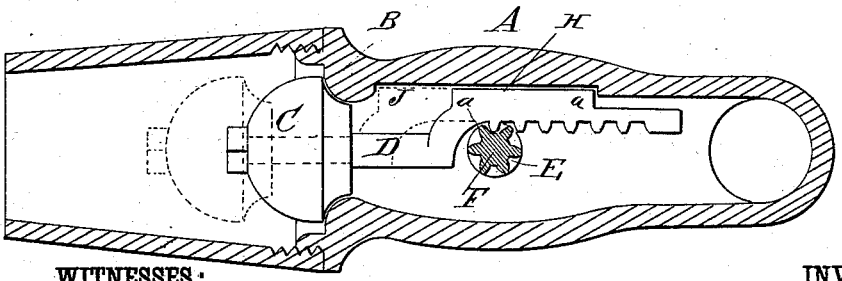


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN H. SOLIS, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO SAMUEL A. CHURCHILL, OF SAME PLACE, AND GEORGE W. CHURCHILL, OF DUNELLEN, NEW JERSEY.

COCK.

SPECIFICATION forming part of Letters Patent No. 265,168, dated September 26, 1882.

Application filed June 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. SOLIS, of the city, county, and State of New York, have invented a new and Improved Cock, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved close-fitting cock of simple construction.

The invention consists in the employment of a cock-casing having in the upper surface of one side a longitudinal groove, a rack or toothed bar having a valve and shoulder sliding in the aforesaid groove, and a spindle provided with teeth gearing with the rack, substantially as hereinafter more fully set forth.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal sectional elevation of my improved cock. Fig. 2 is a sectional plan view of the same on the line *x x*, Fig. 1.

The cock A is provided with a valve-seat, B, against which a valve, C, preferably made of rubber or of metal covered with rubber, fits closely. This valve is attached to the rear or inner end of a rack-bar, D, engaging with teeth E on a spindle, F, projecting from the top of the cock, and provided with a hand-wheel, G, or with a handle. The rack-bar is provided on its outer longitudinal side with a longitudinal ridge, H, forming shoulders *a* at the ends, which ridge passes into a groove, J, in the inner side of the casing of the cock, in which groove this ridge is adapted to move longitudinally. By turning the spindle F the teeth E in the same will move the rack D, and the valve C, attached to the inner or rear end of the rack, will be moved a greater or less distance from its slot or toward the same. The shoulders *a*, by striking against the ends of the groove J, prevent the rack from being moved too far in either direction. When the valve rests on its seat it is held on the same by the rack and pinion, and is also held against its seat by the pressure of the liquid or gas for which the cock is used.

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

In a cock, the combination, with the cock-casing A, provided with a longitudinal groove, J, in the inner surface of one side, of the valve C, the rack D, provided with shoulders *a*, moving in this groove J, and of the spindle F, provided with teeth E, substantially as herein shown and described, and for the purpose set forth.

JOHN H. SOLIS.

Witnesses:
OSCAR F. GUNZ,
C. SEDGWICK.