Rhoades & Adams,

Well Tubing,

No. 80,504. Patented July 28, 1868.

Fig: 1

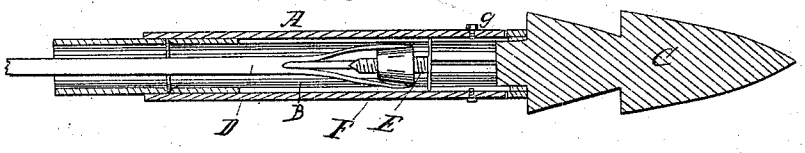
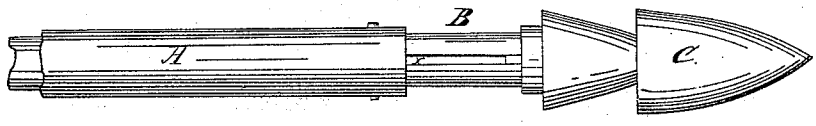


Fig: 2.



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United States Patent Office.

ALBERT RHOADES AND JOHN ADAMS, OF PONTIAC, MICHIGAN.

Letters Patent No. 80,504, *dated July* 28, 1868.

IMPROVEMENT IN DEEP-WELL TUBES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, ALBERT RHOADES and JOHN ADAMS, of Pontiac, in the county of Oakland, and in the State of Michigan, have invented certain new and useful Improvements in Well-Tubes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon.

In the annexed drawings, making a part of this specification, A represents an ordinary metallic tube for wells, and B represents a tube provided with a suitable number of slots, *x*, for the water to pass through into said tube and the tube A.

The slotted tube B fits into and works in the bottom or lower end of the tube A, and has secured to its lower end the point or barb C, which is provided with two shoulders, or a double barb, for the purpose of catching in the earth after the tube has been driven to the desired depth, and holding the inner tube, B, when the well-tube is pulled up, so as to leave the slots *x* open, and thereby allow the water to pass or run into the tube.

Inside of the slotted tube B is adjusted a cleaner, E, constructed with fingers or projections, which work in the slots *x*, and provided with a screw which is pointed at the upper end, for the purpose of catching in the thimble-nut F, which is secured at the end of a rod, D_1 of sufficient length to reach the bottom of the tube.

When the slots *x* get clogged up, and it is desired to clean out the well, the rod D is inserted in the tube A, and turned, so that the thimble-nut F catches on the screw of the cleaner E, which may then be worked up and down, and the earth or solid matter removed from the slots *x*.

The tube A is prevented from being pulled entirely off from the tube B by means of screws, *g*, through the slots *x*.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The arrangement of the removable rod D, having a female screw, F, to connect to the screw upon the cleaner E, at the lower portion of the slotted tube B, all constructed to operate substantially as specified.

In testimony that we claim the foregoing, we have hereunto set our hands, this 21st day of December, 1867.

ALBERT RHOADES,
JOHN ADAMS.

Witnesses:
E. F. DEWEY,
J. M. MASON.