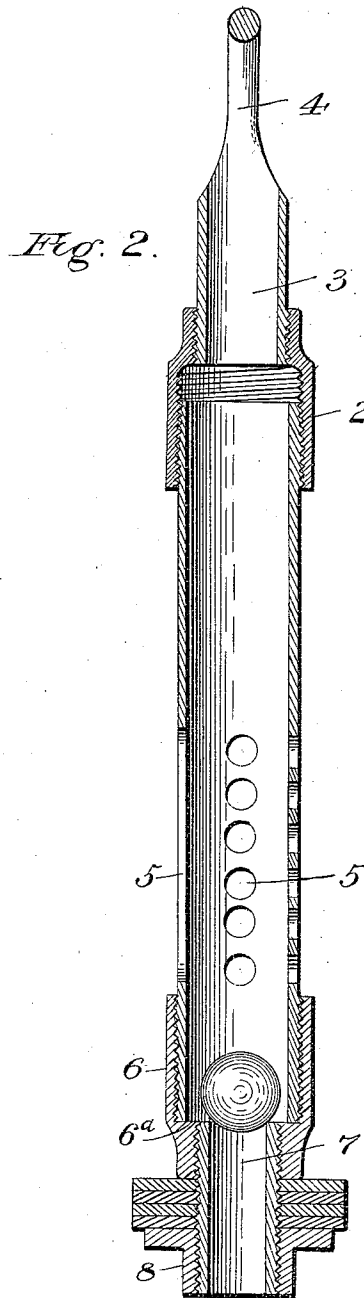
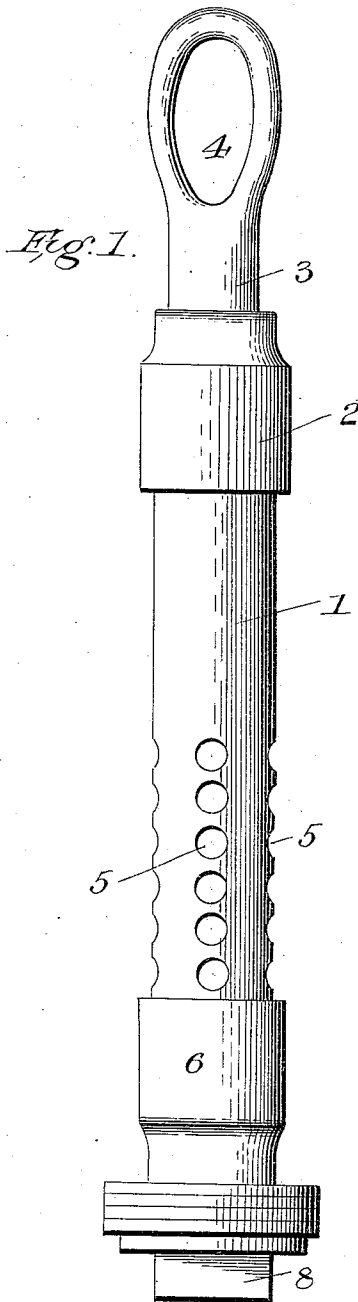


(No Model.)

H. J. WELTER & L. E. SACKSTEDER.
DEVICE FOR CLEANING OUT TUBED WELLS.

No. 544,148.

Patented Aug. 6, 1895.



WITNESSES:
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UNITED STATES PATENT OFFICE.

HENRY J. WELTER AND LOUIS E. SACKSTEDER, OF TIFFIN, OHIO.

DEVICE FOR CLEANING OUT TUBED WELLS.

SPECIFICATION forming part of Letters Patent No. 544,148, dated August 6, 1895.

Application filed February 28, 1895. Serial No. 540,105. (No model.)

To all whom it may concern:

Be it known that we, HENRY J. WELTER and LOUIS E. SACKSTEDER, residents of Tiffin, in the county of Seneca and State of Ohio, have
5 invented certain new and useful Improvements in Devices for Cleaning Out Tubed Wells; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled
10 in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Our invention relates to devices for cleaning out oil, gas, and other wells, and its object is to provide an improved construction which shall possess superior advantages with respect to efficiency in operation.

The invention consists in the novel construction and combination of parts herein-
15 after fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a device for cleaning tubed wells constructed in accordance with our invention. Fig. 2 is a central longitudinal section of the same.

In the said drawings the reference-numeral 1 designates a small cylinder, somewhat less in diameter than the diameter of the tubing
20 of the well, provided at its upper end with a socket 2, screw-threaded interiorly to engage with corresponding threads formed on the cylinder. This socket is provided with a screw-plug 3 fitting therein and formed at its
25 upper end with an eye 4, with which a hook or yoke (not shown) engages, which hook or yoke is connected with a rope for lowering the cylinder into the well and withdrawing it therefrom. The cylinder intermediate its
30 ends is formed with a series of perforations or slots 5, and at its lower end is provided with a screw-socket 6, which is contracted at its lower end, forming an annular shoulder 6^a. Fitting in the end of the socket is a short
35 tube 7, which is screw-threaded to engage

with corresponding threads in the socket, and is provided with a nut 8 firmly secured to the lower end thereof. Clamped between the said nut and the bottom of the socket is a washer, (one or more,) of rubber or other suitable material, which fits snugly within the tubing of
50 the well, and located in the cylinder is a ball which serves as a valve to open and close the opening in the nut.

The operation is as follows: The cylinder
55 is let down into the well, when the dirt and other refuse will escape up through the tube in the bottom into the cylinder, and from thence will pass out through the apertures or slots into the space between the cylinder
60 and the tubing. The cylinder is then drawn up by means of the ropes, carrying with it the dirt and refuse, which are prevented from escaping back into the well by means of the washers and the ball-valve.

By a device constructed as above a tubed well can be readily and thoroughly cleaned
65 in a very rapid manner.

Having thus fully described our invention, what we claim is—

In a device for cleaning tubed wells, the combination with the cylinder formed with a series of holes intermediate its ends and provided at its upper end with a socket and screw plug, of the socket at the lower end of
70 the cylinder, contracted at its lower end forming a shoulder the tube fitting therein, the ball valve seated on the upper end of said tube the nut and the washer clamped between said nut and the socket, substantially as described.

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses.

HENRY J. WELTER.

LOUIS E. SACKSTEDER.

Witnesses:

FRANK DORE,
F. K. HEWITT.