

G. M. SHEFFER.
SUCKER-ROD EXTRACTOR.

No. 181,871.

Patented Sept. 5, 1876.

Fig: 1.

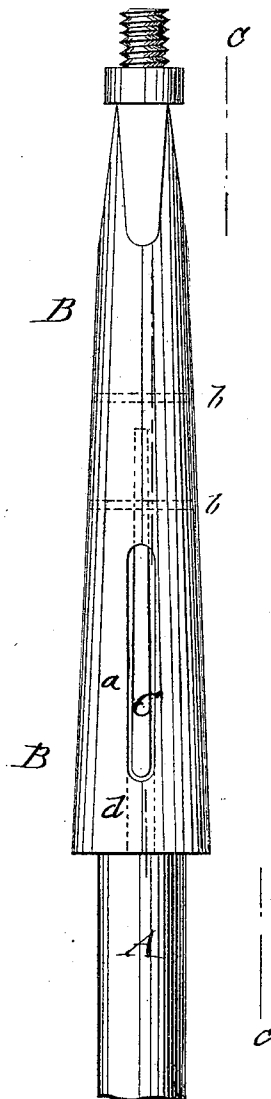
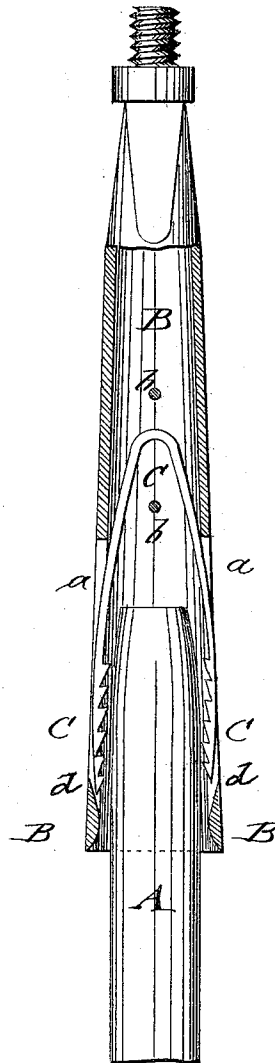


Fig: 2.



WITNESSES:

Chas. Nott
John Gorthals

INVENTOR:

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UNITED STATES PATENT OFFICE.

GEORGE M. SHEFFER, OF EMLENTON, PENNSYLVANIA.

IMPROVEMENT IN SUCKER-ROD EXTRACTORS.

Specification forming part of Letters Patent No. 181,871, dated September 5, 1876; application filed May 22, 1876.

To all whom it may concern:

Be it known that I, GEORGE M. SHEFFER, of Emlenton, in the county of Venango, and in the State of Pennsylvania, have invented a new and Improved Sucker-Rod Extractor, of which the following is a specification:

In the accompanying drawing, Figure 1 is a side view, and Fig. 2 a vertical transverse section, of my sucker-rod extractor, on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved device for extracting sucker-rods from bore-holes of wells, &c.; and it consists of a spring, with toothed jaws that slide in the socket-part of the extractor and bite the rod when properly applied, so as to raise the same.

In the drawing, A represents the sucker-rod; B, the socket with side slots *a*, and a spring-clamp, C, with toothed jaws sliding readily therein. The spring C is made of inverted V shape, and brought at its upper end in contact with cross-pins *b* of the socket. The lower pin pulls the jaws of the spring upward when the socket B is carried up. The upper cross-pin *b* comes, by the downward motion of the extractor, in contact with the upper part of the spring, and causes the jaws to spread and adjust themselves to the end of the sucker-rod

A. The lower part of the socket next below the slots is provided with tapering grooves *d*, to admit the ready sliding of the pointed spring-jaws along the same. The upward motion of the socket, by the connecting-rod screwed to the top of the same, carries the spring-jaws against the sucker-rod, and causes the tight binding of the jaws and socket to the sucker-rod, so that the same may be readily drawn and hoisted from the well-hole. Thus the simple downward motion of the extractor produces the seating of the socket or the rod, while the upward motion gives the firm binding of the jaws, and thereby a neat and time-saving device for extracting rods from wells of all kinds.

I am aware that a socket with jaws has been heretofore employed to extract rods or poles from wells not provided with tubes; but my improvement is intended for well-tubes and the inside thereof.

What I claim is—

The combination of socket B, having opposite slots *a a*, tapering grooves *d*, and cross-pins *b b* with the V-spring C, toothed and arranged as shown and described.

GEORGE MANSFIELD SHEFFER.

Witnesses:

WILLIAM H. CHAMBERS,
REUBEN MITCHELL.