

(No Model.)

W. S. ROBERTS.

SUCKER ROD WRENCH AND ELEVATOR.

No. 246,342.

Patented Aug. 30, 1881.

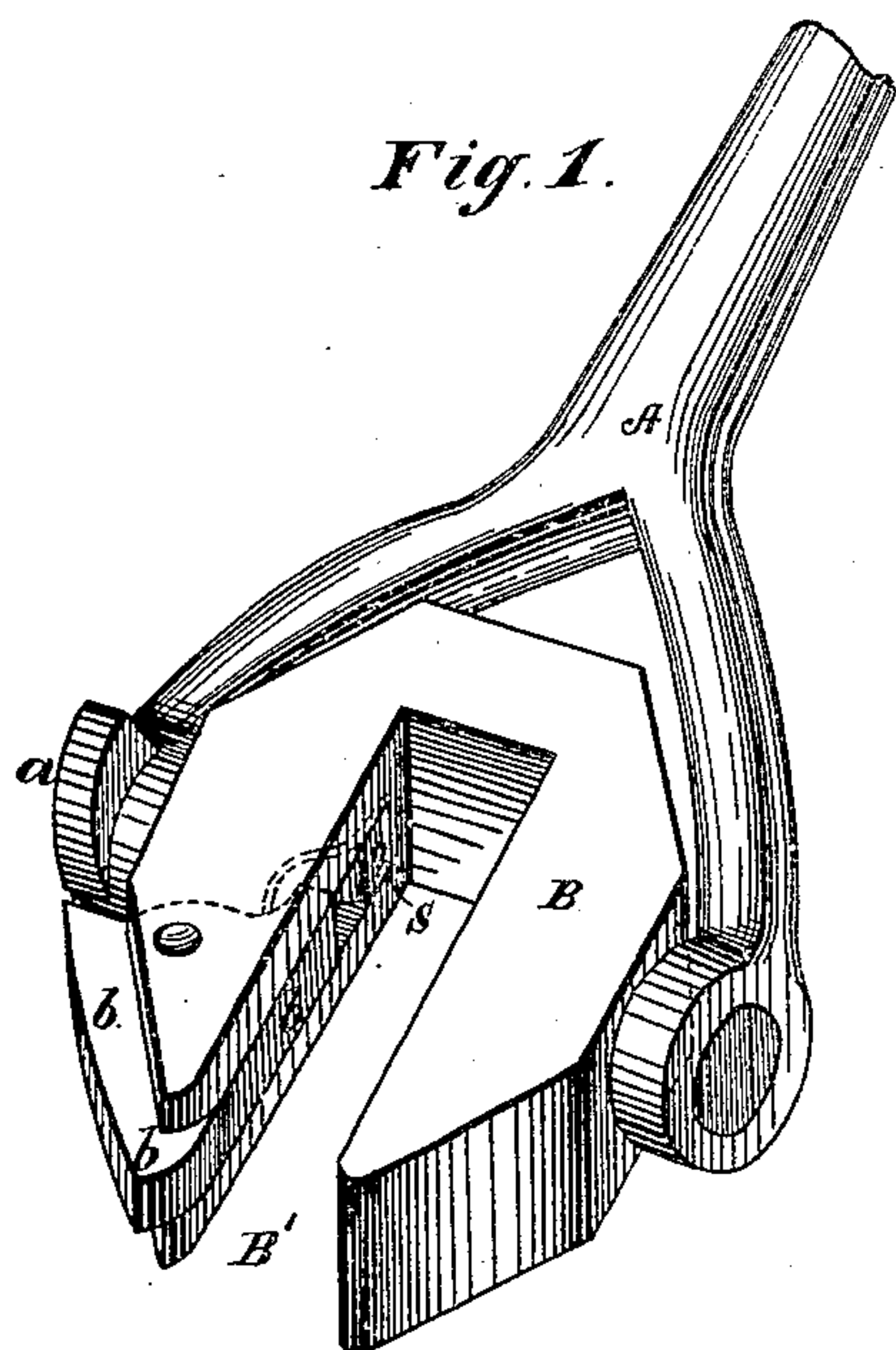


Fig. 2.

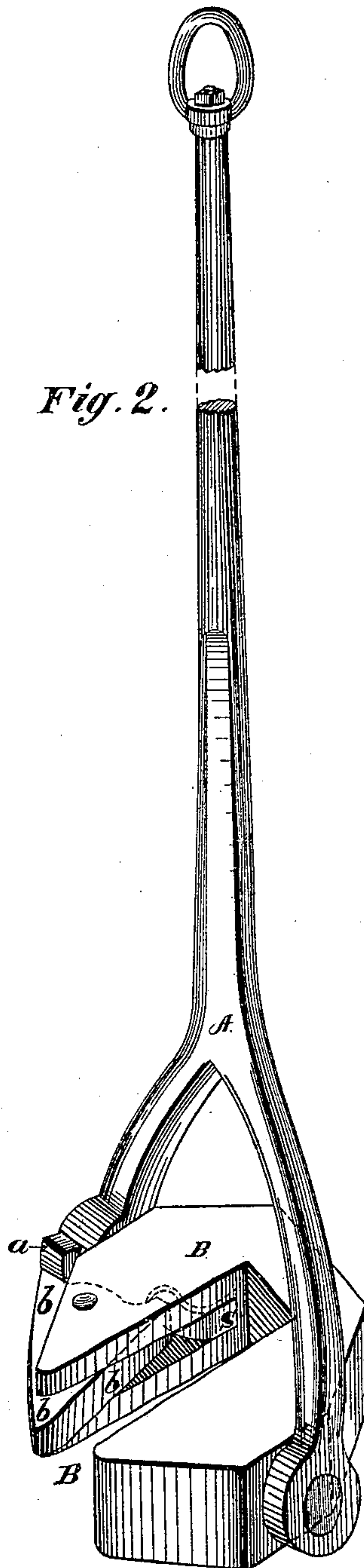
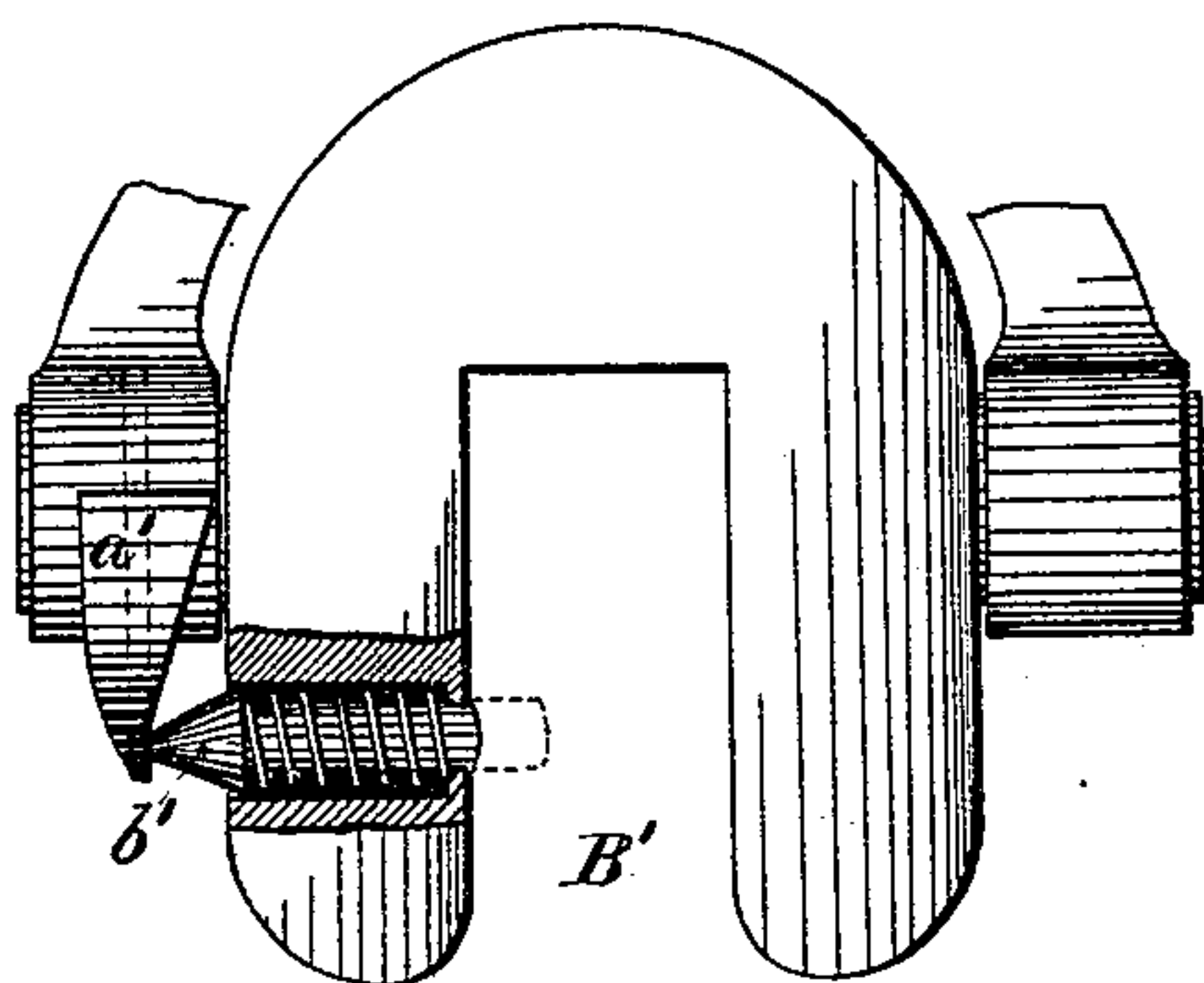


Fig. 3.



Witnesses

W. R. Edelen.

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Inventor

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Attys

UNITED STATES PATENT OFFICE.

WILLIAM S. ROBERTS, OF BRADFORD, PENNSYLVANIA.

SUCKER-ROD WRENCH AND ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 246,342, dated August 30, 1881.

Application filed June 14, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. ROBERTS, of Bradford, McKean county, Pennsylvania, have invented new and useful Improvements in Sucker-Rod Wrenches and Elevators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and the letters or figures of reference marked there-
10 on.

My invention relates to devices for handling oil-well sucker-rods when putting them in or removing them from the well, which devices are known as "sucker-rod wrenches and ele-
15 vators."

The tool consists of a wrench-head with trunnions or pintles on two of its sides, opposite each other, the line of which is transverse the wrench opening or slot, to which pintles
20 is pivoted a forked handle, having at its extremity a swivel. When the forked handle lies horizontal with the wrench-head it can serve as the handle or lever of the wrench, and when turned in a vertical position it can serve as a
25 bail by which to lift the sucker-rod.

My invention consists in providing upon the wrench-head a latch which, when the handle is used as a bail, will sufficiently close the slot to prevent the rod slipping out, and which,
30 when the device is used as a wrench, will fall back and leave free access for the shank of the sucker-rod in the slot of the wrench-head.

My device is shown in the accompanying drawings, as follows: Figure 1 shows the de-
35 vice in position to be used as a wrench. Fig. 2 shows it in position to be used to draw up the sucker-rods or lower them. Fig. 3 shows an analogous construction.

The letters of reference indicate parts, as
40 follows:

A is the handle; B, the wrench-head; B', the opening or slot in the wrench-head; b, the latch; a, the eccentric or cam on the handle for moving the latch; S, the spring which keeps
45 the latch back when not pushed forward by the cam.

It is not new to provide means upon such a device as is here under consideration for holding the sucker rod in place when the device is used as an elevator. This has been done by
50 placing a finger on the handle A, which, when the handle is in a vertical position, will lie in front of the sucker-rod and prevent it slipping out of the slot B'. This finger is liable to break
55 off in usage.

My invention consists in providing a latch
55 upon the head B which will be thrown out into the opening B' and prevent the rod slipping out when the handle is in a vertical position. In Figs. 1 and 2 this latch is shown as a flat
60 pivoted tongue lying in a recess, and projecting to one side far enough to be acted upon by the cam a on the handle when it is turned up.

The operation of this device is fully shown in Figs. 1 and 2. The spring S may be used
65 or not, as desired. In the construction shown in Fig. 3 the latch consists of a spring-bolt, b', which is operated upon by a cam, a'. I consider these two forms as entirely analogous. Other analogous forms might be shown—such
70 as a plate pivoted on the face of the head B, for instance; but I believe I have shown enough to fully illustrate my invention.

What I claim as new is—

1. The combination, within a sucker-rod
75 wrench and elevator, of a latch upon the wrench-head, which is operated to form an obstruction in the opening B' when the handle A is turned up, substantially as and for the purposes set
80 forth.

2. In a sucker-rod wrench and elevator, the combination of the handle A, wrench-head B, latch b, and cam a, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of May, 85
1881.

W. S. ROBERTS.

Witnesses:

E. A. HEART,
M. F. HALLECK.