

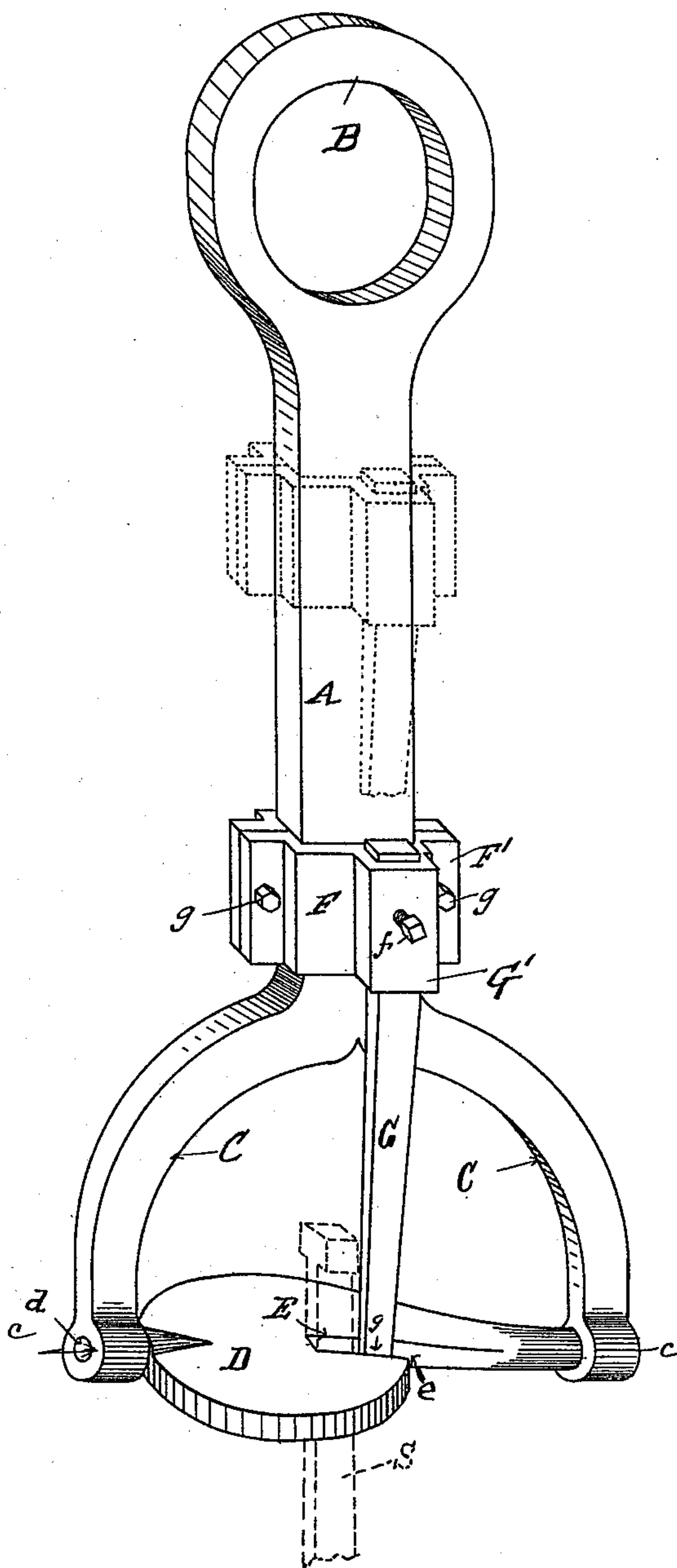
(No Model.)

H. KNOX.
SUCKER ROD ELEVATOR.

No. 408,415.

Patented Aug. 6, 1889.

Fig. 1.



Witnesses.

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UNITED STATES PATENT OFFICE.

HARVEY KNOX, OF RIXFORD, PENNSYLVANIA.

SUCKER-ROD ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 408,415, dated August 6, 1889.

Application filed September 20, 1888. Serial No. 285,894. (No model.)

To all whom it may concern:

Be it known that I, HARVEY KNOX, a citizen of the United States, residing at Rixford, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Sucker-Rod Elevators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, forming a part of this specification.

My invention consists in the improvements in sucker-rod elevators hereinafter set forth and explained, and illustrated in the accompanying drawing, in which the figure is a perspective view of my improved sucker-rod elevator.

The object of my invention is to so secure the locking-tongue of a sucker-rod elevator to a sliding sleeve that it can be raised out of the jaw and the shank of the sucker-rod removed therefrom while in an upright position.

In the construction of my invention shown, A is a flat rectangular stem having an eye B in the upper end thereof and a yoke C on the lower end thereof. In the ends of the yoke C, I pivot a bar or jaw D, having therein a longitudinal slot E, open at one end *e*, so that the shank on the end of a sucker-rod may be placed therein, as indicated by dotted lines in the drawing. On the stem A, I secure a sliding sleeve F, having secured to one side thereof a tongue G, in such position that when in the position shown in full lines in the figure the point *g* thereof will enter the open end *e* of the slot E and prevent the shank of a sucker-rod placed therein from slipping out of the slot, but which sleeve F and tongue G can be raised up, as shown in the dotted lines in the figure when it is desired to remove a sucker-rod shank from the slot E. The sleeve

F is made in halves and provided with the flanges F', secured together by bolts *g*, so that it may be removed from the shank A when desired.

G' is a boss upon the sleeve F, provided with a vertical hole for receiving the square upper end of the tongue G, and *f* is a set-screw for securing the said tongue in the hole.

In the construction shown I have illustrated and described convenient mechanism for utilizing my invention. It is, however, obvious that this construction may be modified without departing from the spirit of my invention.

Therefore, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a sucker-rod elevator, the combination, with the rectangular lifting-stem A, provided with a yoke at its lower end, of the jaw D, pivoted between the ends of said yoke and provided with the open-ended slot *e*, the sleeve F, sliding upon the said rectangular stem, and the tongue G, secured to one side of the said sleeve and adapted to enter the open end of slot *e*, substantially as and for the purpose set forth.

2. In a sucker-rod elevator, the combination, with the rectangular lifting-stem A, provided with a yoke at its lower end, of the jaw D, pivoted between the ends of said yoke and provided with the open-ended slot *e*, the sleeve F, formed in halves and provided with the flanges F', the bolts *g*, and the boss G', the tongue G, adapted to enter the open end of slot *e*, and having its upper end square and inserted in boss G', and a set-screw for securing the said tongue in the boss, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HARVEY KNOX.

Witnesses:

GEO. N. STURGEON,
L. H. SIMONS.