

No. 815,723.

PATENTED MAR. 20, 1906.

J. MAHONEY.
HOOK FOR SUCKER ROD ELEVATORS.
APPLICATION FILED NOV. 17, 1905.

Fig. 1.

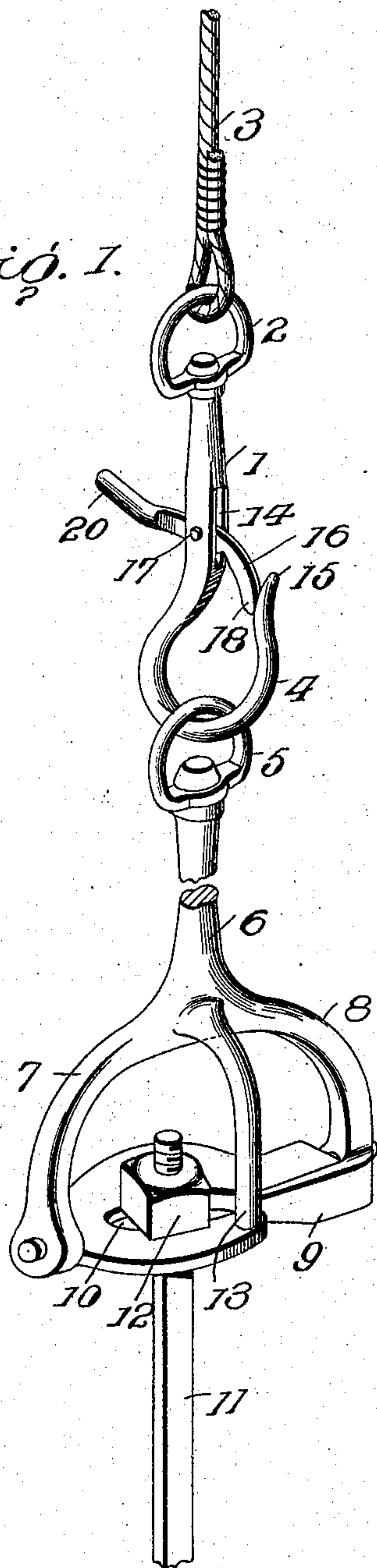


Fig. 2.

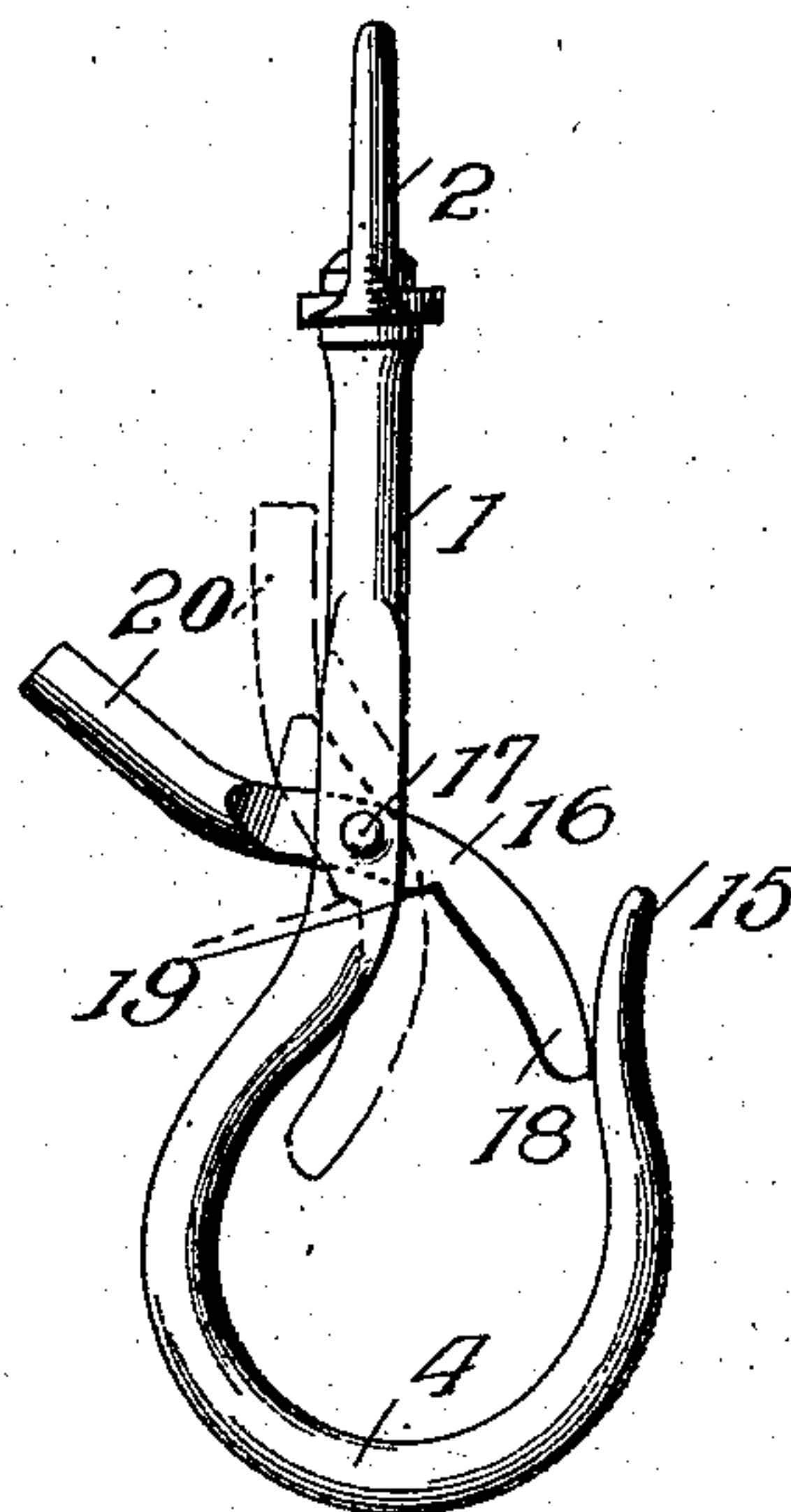
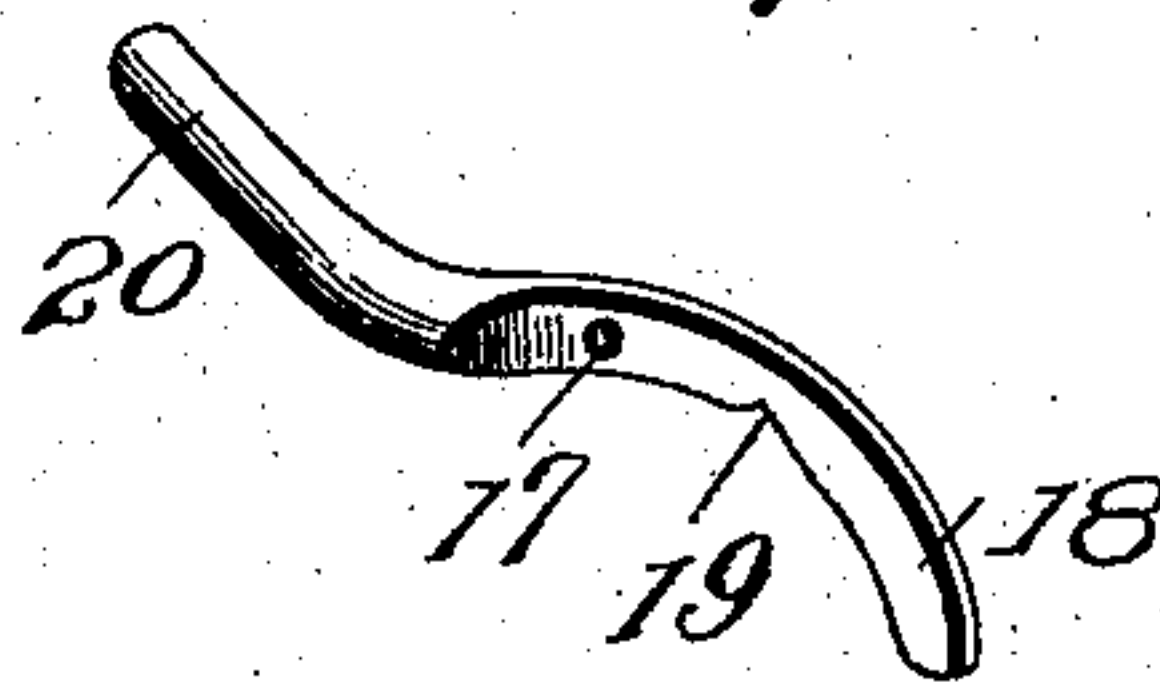


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES MAHONEY, OF MOUNT ALTON, PENNSYLVANIA.

HOOK FOR SUCKER-ROD ELEVATORS.

No. 815,723.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed November 17, 1905. Serial No. 287,828.

To all whom it may concern:

Be it known that I, JAMES MAHONEY, a citizen of the United States, residing at Mount Alton, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Hooks for Sucker-Rod Elevators, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in hooks for sucker-rod elevators, and pertains more particularly to those used in oil-wells.

The object of my invention is to provide a hook of this character which is adapted to be hooked into the elevators secured to the upper end of the sucker-rod and so constructed that it is impossible for the same to become unhooked from the elevator by the slacking of the rope or any other cause.

Another object of my invention is to provide a more simple, durable, and effective hook of this character.

In the accompanying drawings, Figure 1 is a perspective view of my improved hook as applied. Fig. 2 is an enlarged side elevation of the hook, showing the weighted tongue closing the same and showing the tongue open in dotted lines. Fig. 3 is an enlarged perspective view of the tongue removed.

Referring now to the drawings, 1 represents the stem of my improved elevator-hook, which, as shown, is of an elongated form and has an eye swiveled to its upper end, and said eye has secured thereto in any manner the elevating rope or cable 3, which, as understood, passes up over a pulley on the derrick and is wound upon a drum upon the drilling-machine, as is well understood by those skilled in the art. The said shank of the hook at its lower end is provided with the usual hook 4, which is adapted to be hooked into the swiveled eye 5, carried by the upper end of the shank 6 of the sucker-rod elevator. The said elevator is constructed of a well-known form, having the two downwardly-extending arms 7 and 8, in which is pivotally supported the sucker-rod-supporting member 9, the said member having a slot 10 therein for receiving the sucker-rod 11, the head 12 of said sucker-rod resting upon the member 9, while the finger 13 prevents the member 8 from tilting caused by the weight of the sucker-rod.

The elongated shank 1 of the hook is provided with an obliquely-arranged elongated

opening 14 adjacent its lower end, and in a line with the free upper end 15 of the hook 4 and passing through the said opening 14 is a flat curved tongue 16, which is approximately S-shaped and is pivoted at 17 within the said oblique opening. The portion 18 below the pivot connection is of such a length that it will engage the outer end of the hook 4, and thus the same is prevented from swinging downwardly below a horizontal line. The said lower end 18 is also provided with a knob 19, which is adapted to receive the lower edge of the opening 14, and thus allow the tongue to be swung in an approximately vertical position, so that the hook may be readily disengaged from the sucker-rod elevator. The upper end 20 of said tongue 16 is made round and of a heavy form to overbalance the lower end, and thus normally hold the lower end 18 in engagement with the hook 4.

From the foregoing description it will be seen that should the rope 3 become slackened for any reason whatever the hook would drop and the swiveled eye 5 will engage the lower face of the lower end of the tongue 16, and the hook would be prevented from becoming disengaged from the sucker-rod elevator.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A hook, comprising a body portion having a long shank, an eye swiveled to the upper end thereof, and the shank having an elongated opening therethrough in which is intermediately pivoted the tongue having a weighted upper end.

2. A hook, comprising a body portion having a long shank, an eye swiveled to the upper end thereof, said shank having an elongated opening therethrough and in which is intermediately pivoted an S-shaped tongue in a line with the upper end of the hook, and said tongue having a weighted upper end.

3. A hook comprising a body portion having a long shank, an eye swiveled to the upper end thereof, said shank having an elongated obliquely-arranged opening therethrough, and an intermediately-pivoted S-shaped tongue in a line with the upper end of the hook, and said tongue having its upper end weighted.

4. A hook, comprising a body portion having a long shank, an eye swiveled to the upper end thereof, said shank having an elongated

gated obliquely-arranged opening there-
through, and an intermediately-pivoted S-
shaped tongue within said opening in a line
with the upper end of the hook, and said
5 tongue having a notch below the pivotal
point to allow the hook to swing downward
in a vertical line, and a weighted upper end.

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

JAMES MAHONEY.

Witnesses:

EDWARD JIFKINS,
JAY NORTH.