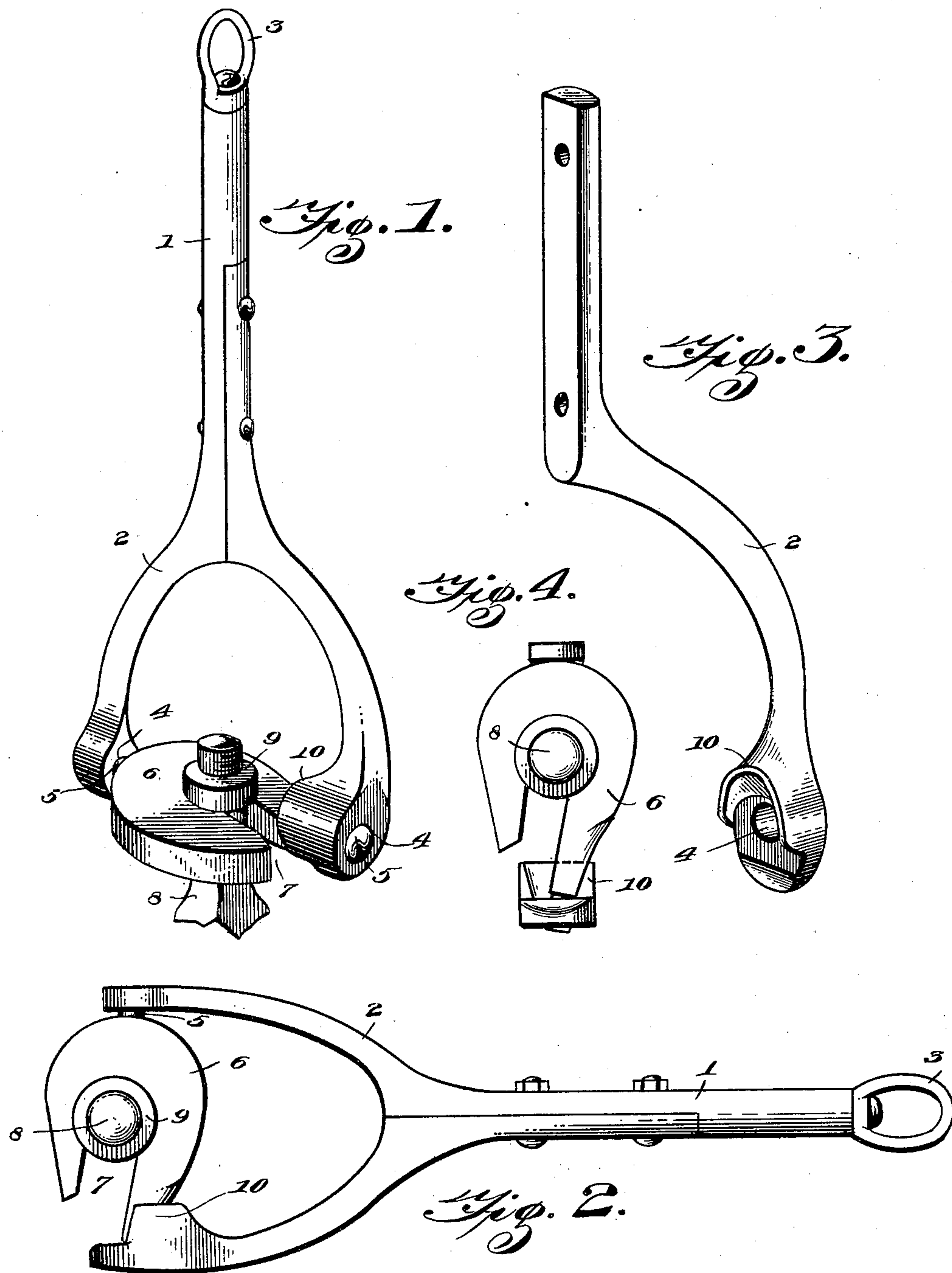


No. 681,937.

Patented Sept. 3, 1901.

C. M. SPINK.  
SUCKER ROD ELEVATOR.  
(Application filed Mar. 28, 1901.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

CASSIUS M. SPINK, OF CYGNET, OHIO, ASSIGNOR OF ONE-HALF TO CHARLES E. WOLFE, OF SAME PLACE.

## SUCKER-ROD ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 681,937, dated September 3, 1901.

Application filed March 28, 1901. Serial No. 53,289. (No model.)

*To all whom it may concern:*

Be it known that I, CASSIUS M. SPINK, a citizen of the United States, residing at Cygnet, in the county of Wood and State of Ohio, have invented a new and useful Sucker-Rod Elevator, of which the following is a specification.

This invention relates to means for elevating sucker-rods out of Artesian and oil wells, and has for its object to prevent accidental displacement of a sucker-rod from the elevator-clamp when the hoisting-cable is slacked for any purpose whatever.

With this object in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of an elevator device constructed and arranged in accordance with the present invention. Fig. 2 is a plan view thereof with the stem dropped into a horizontal position to permit of the engagement and disengagement of a sucker-rod. Fig. 3 is a detail perspective view of one of the fork members of the stem or handle. Fig. 4 is a plan view showing the stem or handle dropped into a pendent position and locking the sucker-rod against displacement.

Like characters of reference designate corresponding parts in all of the figures of the drawings.

Referring to the drawings, 1 designates the handle or stem of the present elevator, which is provided at its lower end with the fork 2 and at its opposite upper extremity with the terminal swiveled eye 3 for engagement with the hook of a hoisting-cable, whereby the elevator is to be raised and lowered. Each member of the fork is provided with a terminal bearing-eye 4 for the reception of the pivot pins or projections 5 of the flat wrench-head 6 commonly employed with the present type of elevator. The wrench-head has the usual

slot 7, which opens outwardly at the inner side of one of the bearing-eyes and has its front wall cut away at the outer end thereof to form a lateral entrance-opening into the slot for the reception of the angular portion of the sucker-rod 8, which has the usual annular shoulder or collar 9, that rests upon the upper side of the wrench-head in the usual manner.

The foregoing parts are common and well known and have certain disadvantages—as, for instance, when a length of a sucker-rod has been elevated, disconnected, and lowered until its lower end strikes the ground the hoisting-cable becomes slack and permits of the stem or handle 1 dropping downwardly at one side or the other of the wrench-head, thereby clearing the open end of the slot in the wrench-head and permitting of the sucker-rod falling out of the slot, to the danger of the workmen and the adjacent machinery and apparatus. This accidental displacement of the sucker-rod also takes place when the wrench-head is rested upon the top of the well-tube and the cable is slacked, thereby causing considerable annoyance and expense. It is the essential object to obviate this accidental displacement of the sucker-rod when the hoisting-cable is slacked and to lock the sucker-rod in whichever direction the stem or handle may fall, and to carry out this object an arcuate flange 10 is formed integrally upon the inner side of the fork member that is next to the open end of the slot in the wrench-head and arches over the adjacent bearing-eye 4 and the pivot-pin 5 of the wrench-head. This flange is substantially semicircular in shape, and its opposite end portions form guard or locking projections that lie at opposite sides of the bearing-eye and extend downwardly to at least the lower half of the eye. In the operative position of the elevator, as shown in Fig. 1, one end portion of the flange lies within the open end of the slot in the wrench-head, thereby closing the slot and preventing accidental displacement of the sucker-rod from the slot of the wrench-head during the raising and lowering of the same. Should the hoisting-cable become slacked and the stem or handle dropped to one side or the other, one end portion of



the flange will be in the slot, for should the stem fall to the left the flange merely turns down into the slot, and should the stem fall in the opposite direction to the right the opposite end of the flange will be swung downwardly beneath the wrench-head and then upwardly into the slot, as shown in Fig. 4, thereby closing the open end of the slot in the same manner. Thus the slot is closed normally and also when the stem or handle has dropped to either side of the wrench-head. To facilitate the engagement and disengagement of the sucker-rod, the flange arches over the upper side of the wrench-head, so that by swinging the stem or handle to the right and into a substantially horizontal position the flange will be thrown away from the slot and leave the latter clear and unobstructed, as shown in Fig. 2, whereby the sucker-rod may be readily inserted into and removed from the slotted portion of the wrench-head.

It will be understood that the outer end of the wrench-head is arranged to pass over the flange 10, so as to be capable of making a complete revolution, whereby such flange does not interfere with the ordinary adjustments of the handle and the wrench-head.

What is claimed is—

In a sucker-rod elevator, the combination of a forked stem, the fork members of which are provided with corresponding bearings, a wrench-head pivoted in the bearings and provided with a slot extended endwise between the fork members and having an open end located adjacent to one of the bearings, and an arcuate closure-flange upon the inner side of the fork member which is adjacent to the open end of the slot, said flange being substantially concentric with and arched over the adjacent bearing, with one end portion normally lying within the open end of the slot and closing the same, and the flange also being constructed to turn through the slot when the stem is being swung upon its pivotal connection with the wrench-head, whereby the slot is maintained closed during the swing of the stem.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CASSIUS M. SPINK.

Witnesses:

S. A. SMITH,

GEO. F. CROUCH.