

(No Model.)

N. R. SWARTZ & F. J. FRIZZELL.
GRIP FOR OIL WELLS.

No. 564,232.

Patented July 21, 1896.

Fig. 1.

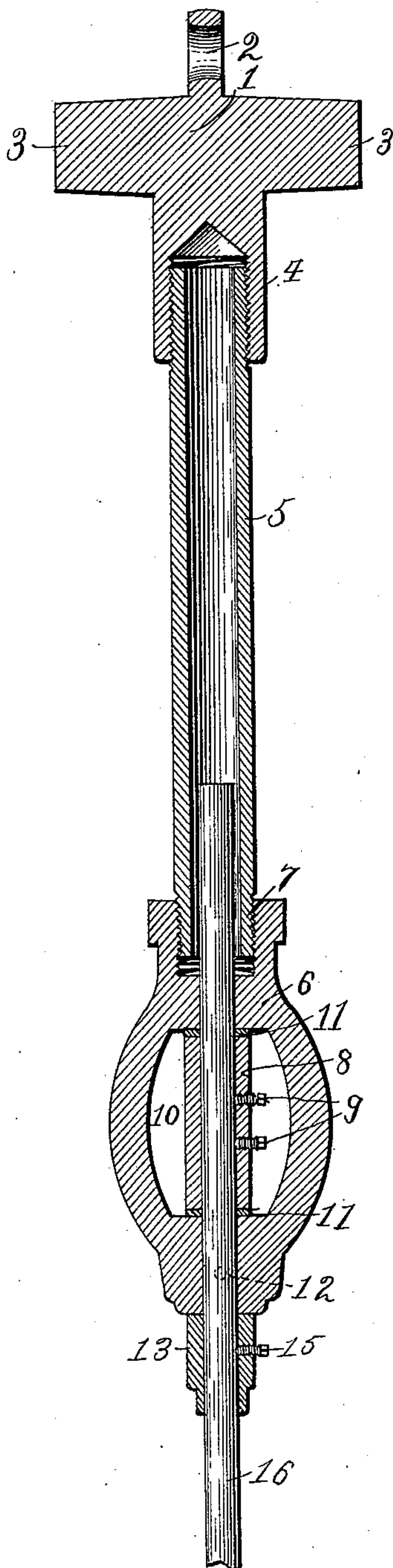
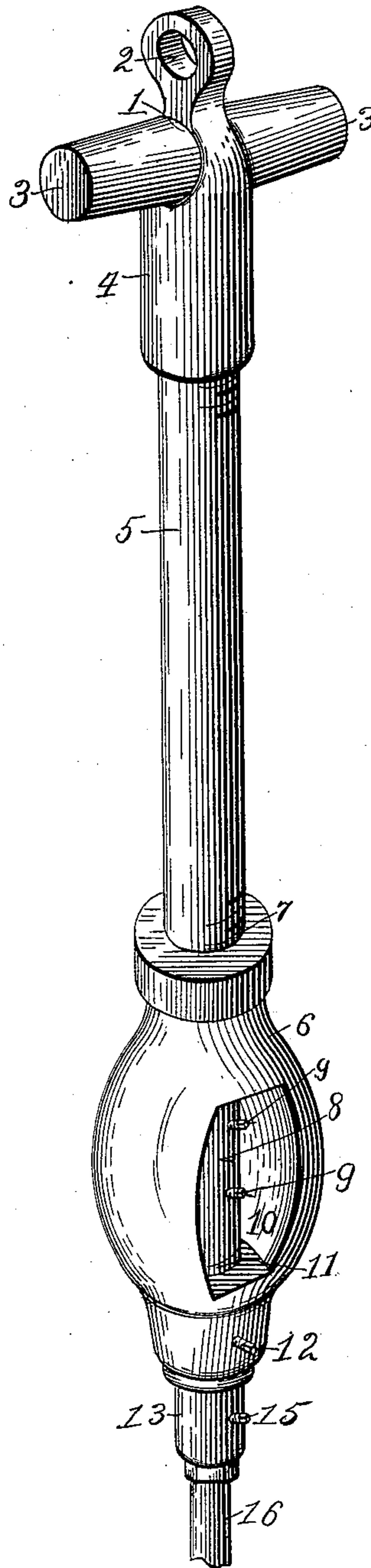


Fig. 2.



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UNITED STATES PATENT OFFICE.

NELSON R. SWARTZ AND FRED J. FRIZZELL, OF FINDLAY, OHIO.

GRIP FOR OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 564,232, dated July 21, 1896.

Application filed September 6, 1895. Serial No. 561,705. (No model.)

To all whom it may concern:

Be it known that we, NELSON R. SWARTZ and FRED J. FRIZZELL, citizens of the United States, and residents of Findlay, in the county of Hancock and State of Ohio, have invented a new and useful Grip for Oil-Wells, of which the following is a specification.

Our invention relates to a device which depends from the walking-beam of an oil-well pumping-rig and grips the polished rod or upper rod of the series of pumping connections in such manner as to hold the same securely while reciprocating movement is imparted to the pump from the walking-beam and at the same time permit the rod to be turned, as is customary, for the purpose of preventing paraffining.

Our invention consists in certain details of novel construction of such a device to be particularly pointed out in the claims, and which will be fully understood upon reference to the accompanying drawings, in which—

Figure 1 is an axial section of the tool, and Fig. 2 is a perspective view of the same.

1 represents the T-head by which the tool is attached to the walking-beam and which is formed with the usual eye 2, trunnions 3, and internal screw-threaded socket 4, in which latter is inserted the connecting-tube 5. Rigidly attached to the lower end of the tube 5 is the fixed supporting-coupling 6, which is threaded at 7 to receive said tube 5 and carries within it the gripping-sleeve 8, having set-screws 9, and which has bearings 11 at top and bottom of an enlarged opening 10, in which the sleeve 8 may turn and be manipulated.

12 represents a set-screw in the lower end of the fixed supporting-coupling 6 for the purpose of locking the polished rod in any position to which it may be turned.

Just beneath the lower end of the coupling 6 is attached a turning sleeve 13, having a lower faced end 14 for the reception of a wrench and provided with a locking-screw 15 for causing the rod to turn with the sleeve.

16 represents the polished rod, for gripping which the invention is designed.

The rod is inserted through sleeve 13, then introduced through the coupling-head 6 and the grip-collar 8, after which the set-screws 9 are tightened up and the rod is fixed securely against longitudinal movement, but rotatable at will. Having been rotated to any desired degree, it is fixed in position by the set-screw 12.

In our improved construction the grip is found to be very effective and at the same time the turning connection is at a point within convenient reach of the operator at the platform. The device is also inexpensive in construction and saves considerable breakage of the rod which is experienced with the grips heretofore used.

Having thus described our invention, the following is what we claim as new therein and desire to secure by Letters Patent:

1. In combination with the depending tube 5 having suitable means for attachment to the walking-beam, the grip-head 6 fixed against turning upon the lower end of said tube and having the enlarged central opening 10, and the grip-sleeve 8 fitting longitudinally between the top and bottom of the opening 10 and having the gripping-screws 9, said opening permitting the sleeve and gripping-screws to rotate within it, substantially as set forth.

2. The combination of the tube 5 having means for attachment to the walking-beam, the gripping-head 6 screw-threaded to the lower end of said tube and having the enlarged opening with the upper and lower bearings 11, the gripping-sleeve 8 fitting between the bearings 11 and having the gripping-screws 9, the set-screw 12, and the turning collar 13 having set-screw 15 for fixing it upon the polished rod, substantially as and for the purposes set forth.

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Witnesses:

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