

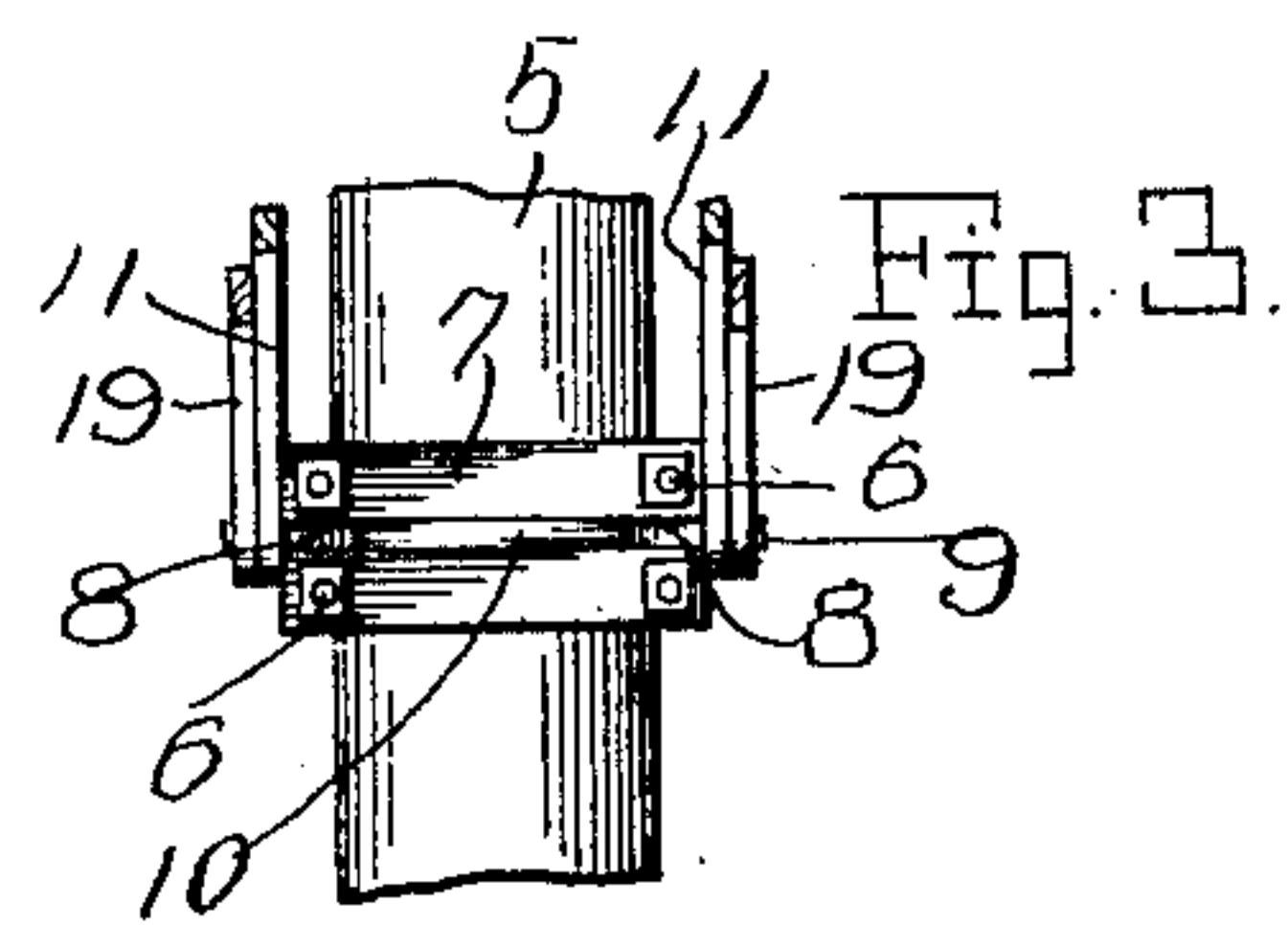
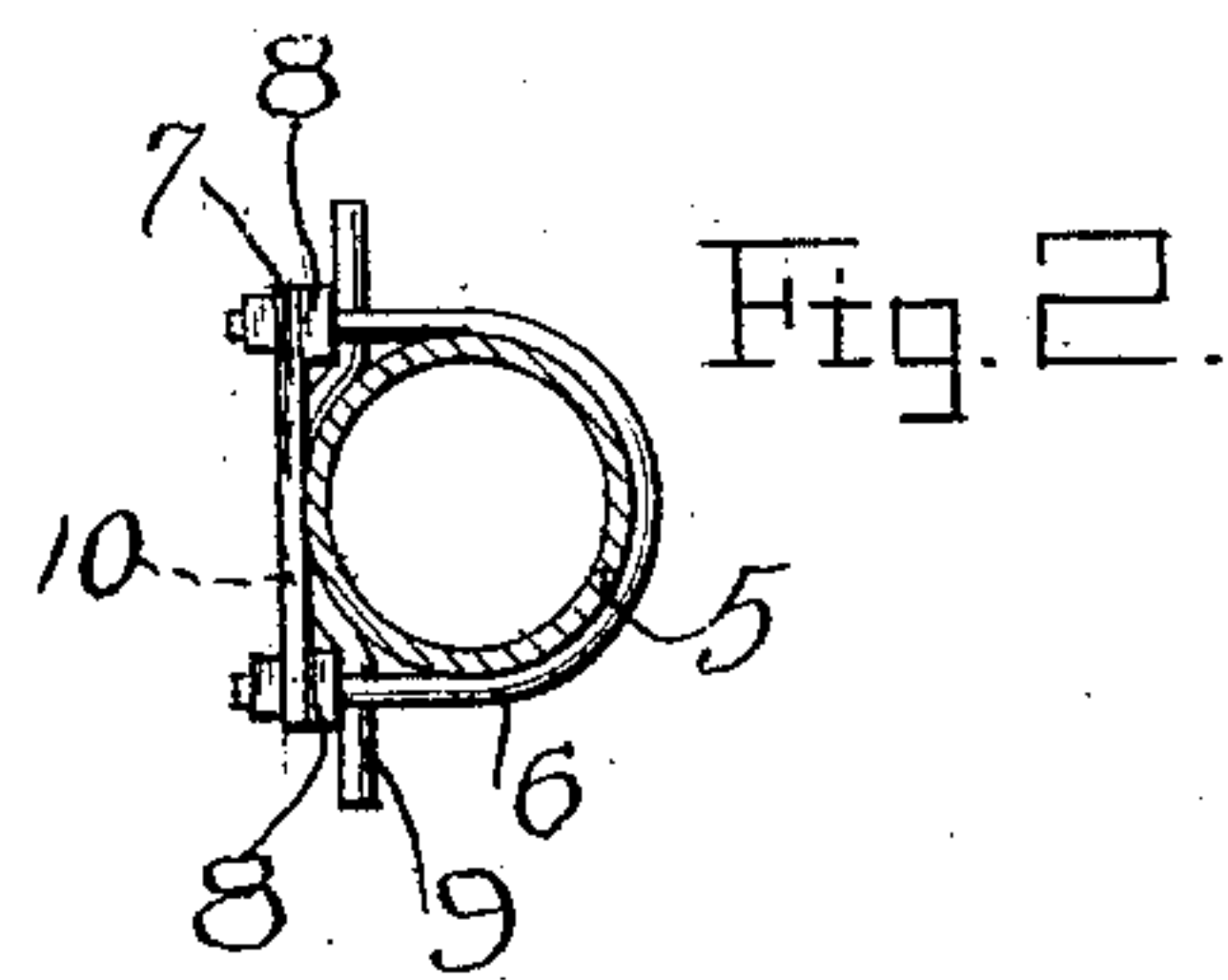
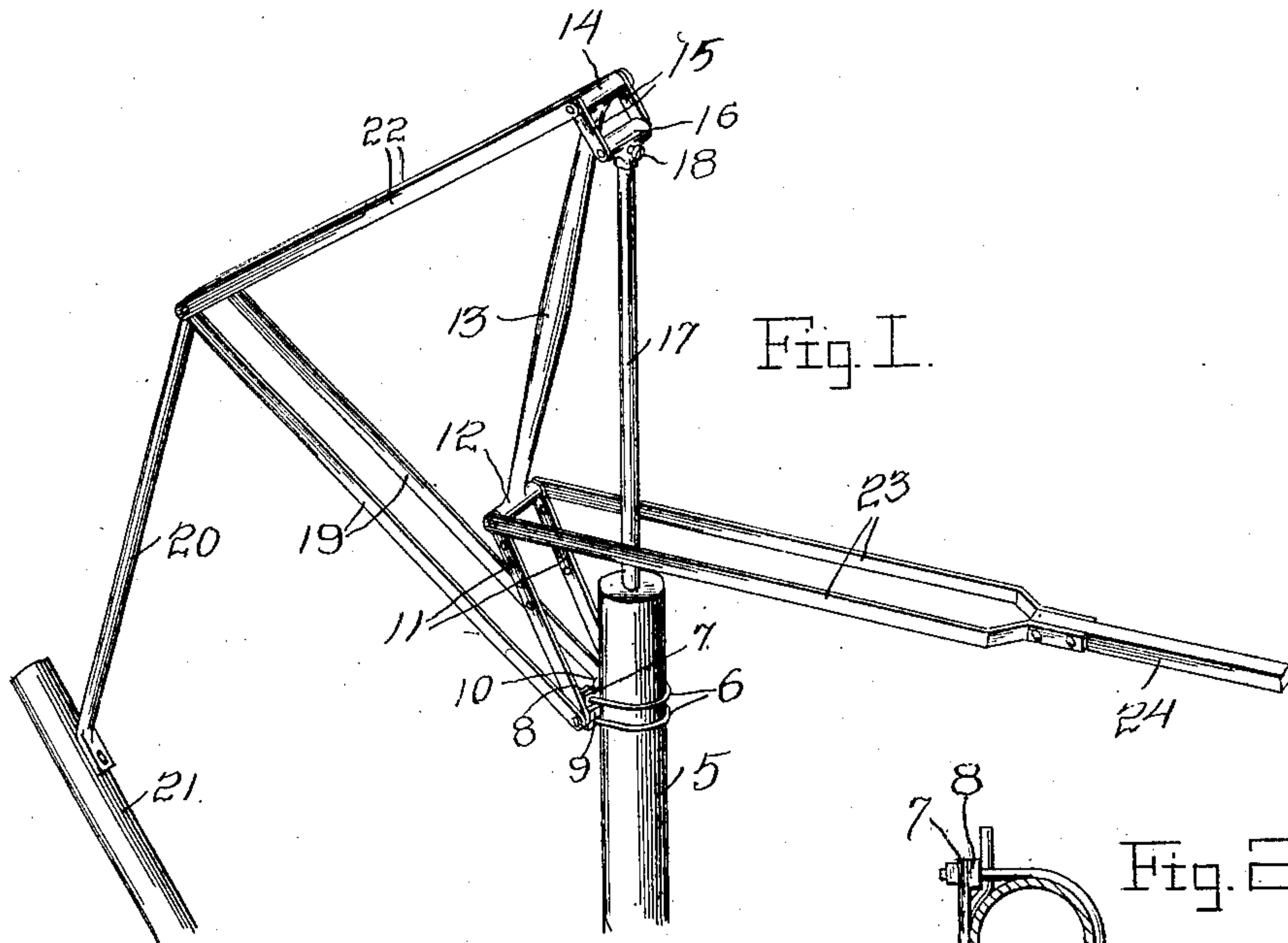
No. 829,708.

PATENTED AUG. 28, 1906.

J. L. FRIESNER.

PUMP JACK.

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Witnesses
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JESSE L. FRIESNER, OF CONVERSE, OHIO.

PUMP-JACK.

No. 829,708.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JESSE L. FRIESNER, a citizen of the United States, residing at Converse, in the county of Van Wert, State of Ohio, have invented certain new and useful Improvements in Pump-Jacks; 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.

Other objects and advantages will be apparent from the following description, and it will be understood that modifications of the specific construction shown may be made and any suitable materials may be used without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a perspective view of the invention. Fig. 2 is a sectional view of the pump and showing the attaching mechanism in top plan. Fig. 3 is a view showing the pump in elevation and a portion of the lever mechanism.

Referring now to the drawings, there is shown the upper end of a pump-cylinder 5, with which are engaged a pair of spaced clamping-yokes 6, the legs of which are connected by plates 7. The legs of one of the loops are connected with those of the other by means of plates 8, and engaged between these plates and the cylinder is a rod 9, bowed at its center, as shown at 10, to conform to the shape of the cylinder and extending at its ends beyond the sides of the cylinder. Pivotally engaged with the ends of this rod 40 are the lower ends of a pair of links 11, the upper ends of which are pivoted to the ends of a transversely-extending head 12, carried by the lower end of an arm 13, this arm having a similar head 14 at its upper end, to which are pivoted the ends of short links 15, the opposite ends of these links being pivoted to the ends of a casting 16, having a passage therethrough in which the polish-rod 17 of the pump is engaged, the casting having a 50 set-screw 18 engaged therein and arranged to be clamped against the polish-rod to hold the latter in the passage.

Rigidly secured to the ends of the rod 9, outwardly of the links 11, are a pair of rearwardly-extending arms 19, which are in- 55 clined upwardly and have their rearward

ends secured to a rod 20, which is fastened at its lower end to an anchor 21.

= Pivoted to the upper ends of the arms 19 are forwardly-extending spaced members 22, 60 which are pivoted at their forward ends to the head 14 of the arm 13 outwardly of the links 15.

Pivoted to the ends of the head 12, outwardly of the links 11, are the rearward ends 65 of a pair of forwardly-extending spaced arms 23, one of which lies at each side of the polish rod, and between the forward ends of these rods there is secured the surface-rod 24 of the pump. 70

The present invention is especially adapted for oil-pumps, and its operation will be apparent without further description. The head 12 is shiftable longitudinally of the links 11, and in this way the stroke of the 75 pump may be varied, as readily understood.

In Fig. 2 there is shown a construction in which a sill 25 is employed, to which are pivoted the lower ends of the links 11, and to this sill also are secured the lower ends of the 80 arms 19 and the rod 20.

What is claimed is—

The combination with a pump, of a clamp engaged with the cylinder thereof, the rod 9 engaged between the clamp and the cylinder 85 and extending outwardly therebeyond at its ends, the links 11 pivotally engaged at their lower ends with the ends of the rod, the arm 12 pivoted between the upper ends of the links, the short links 15 pivoted to the upper 90 end of the arm, the passaged casting 16 pivoted between the links, the polish-rod of the pump being slidably engaged in the passage of the casting, the set-screw 18 arranged for operation to hold the polish-rod at different 95 points of its movement in the passage, the surface-rod 24, the spaced arms 23 carried by the surface-rod and pivotally connected with the links 11 and arm 13 at the point of connection thereof, the rigidly-mounted rod 100 20, the members 22 pivoted to the rigid rod and to the upper end of the arm 13, and the arms 19 secured to the rigid rod at their upper ends and engaged at their lower ends with the ends of the rod 9, substantially as 105 set forth.

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

JESSE L. FRIESNER.

Witnesses:

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