No. 806,438. PATENTED DEC. 5, 1905.

J. R. SEMPLE.

WALKING BEAM.

APPLICATION FILED NOV. 4, 1904.

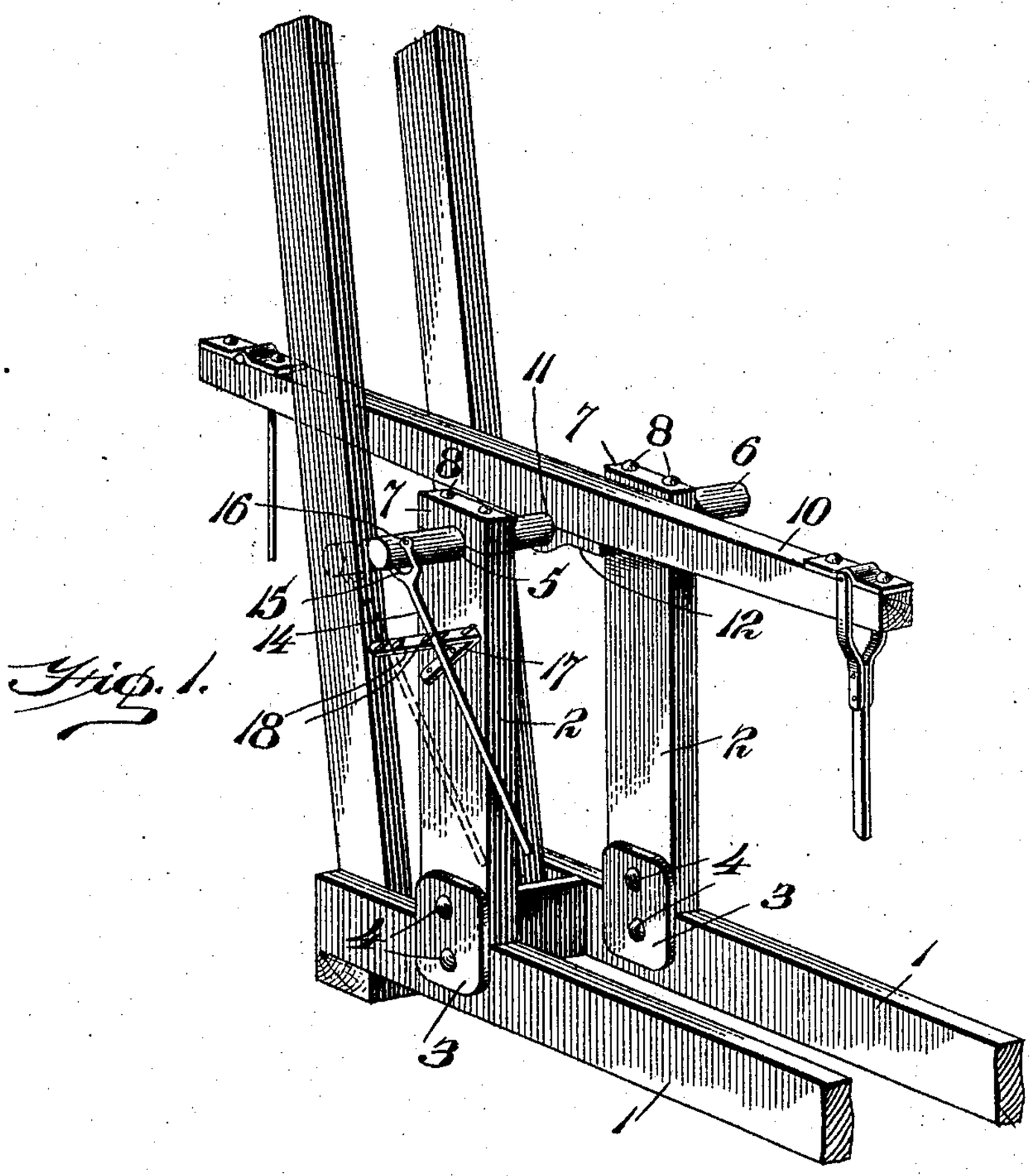

Fig. 1.

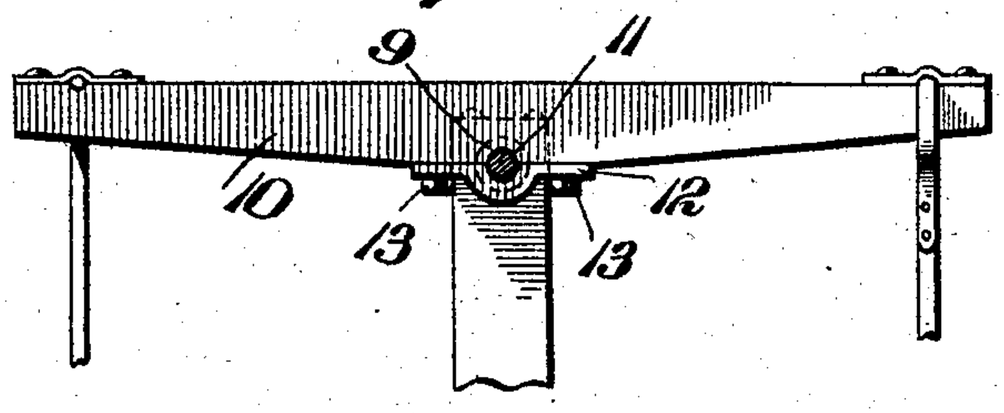

Fig. 2.

WITNESSES:

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JAMES R. SEMPLE, OF SUGARCREEK, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO LINDEN W. WOLFE, OF OIL CITY, PENNSYLVANIA.

WALKING-BEAM.

No. 806,438. Specification of Letters Patent. Patented Dec. 5, 1905.

Application filed November 4, 1904. Serial No. 231,372.

To all whom it may concern:

Be it known that I, JAMES R. SEMPLE, a citizen of the United States, residing at Sugarcreek, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Walking-Beams for Oil-Well-Drilling Machines, of which the following is a description.

The object of my invention is to provide a machine of this character with an adjustable beam.

In the drawings, Figure 1 is a perspective view of a portion of the frame of an oil-well-drilling machine with my invention attached. Fig. 2 is a side elevation of the walking-beam and one of the samson-posts.

In the drawings, 1 represents the main sills, of any approved construction.

2 represents the samson-posts, which are detachably secured to the main sills by means of a plate 3, of boiler-iron, and bolts 4. It will of course be understood that a plate 3 is secured on each side of the respective samson-posts, so as to make its connection with the main sills rigid. Each samson-post is provided with a bearing 5 in the top thereof, within which is seated a rod 6, said rod being secured upon the seats 5 by means of caps 7, said caps being suitably secured to the posts against displacement by means of the bolts 8. 10 is the walking-beam, of any approved type, provided with a concave seat 11, in which the rod 6 is adapted to be seated, said beam being secured in said bearing by means of the strip 12, which is secured to the beam by the bolts 13, as clearly shown in Fig. 2.

14 is a shifting-lever having a yoked end 15, which is pivoted at 16 to the rod 6 near one end thereof.

17 is a bracket secured to one of the samson-posts, one arm of said bracket being provided with studs or pins 18, between which the lever 14 is adapted to be inserted.

The usual way of positioning the front end of the beam out of line with the tools when "running in" or "pulling out" is to take the pitman off the crank and drop the back end of the beam down, thus raising the forward end of the beam vertically to take it out of line. If this is not done in withdrawing the tools the beam interferes with the rope spooling on the shaft, thus fraying the rope and causing too big a coil in one place on the shaft. The purpose of my invention is to so mount the walking-beam that it will be adjustable both laterally and vertically, and thus obviate the fraying of the rope and also economize space for spooling the rope. With my invention the beam rigidly secured in the bearing of the rod 6 may be centered over the bore of the well by shifting it by means of the rod or lever 14, the lever being positioned between a pair of studs or pins 18, acting as a fulcrum for the lever. When it is desired to withdraw the tools, the walking-beam is shifted laterally between the samson-posts by means of the lever 14. Thus it will be seen that the beam may be removed out of line with the well and the tools will be withdrawn or inserted without fraying the rope and without deflecting the rope from spooling on the shaft.

When it is desired to move the apparatus from one place to another, the samson-posts may be removed by detaching the plates 3.

What I claim, and desire to secure by Letters Patent, is—

1. The combination with a walking-beam and a support upon which the walking-beam is adjustable or shiftable laterally, of a shifting-lever connected with the beam for shifting the same.

2. In an oil-well-drilling machine, the combination with the frame thereof, and posts secured thereto, of a walking-beam adjustably mounted on said posts and a shifting-lever connected with said beam.

3. In an oil-well-drilling machine, the combination with the frame thereof, and samson-posts mounted thereon, of a walking-beam adjustably mounted on said posts, a shifting-lever connected with said beam, and an arm provided with studs acting as a fulcrum for the lever.

4. The combination with a support, of a rod shiftable on the support, a walking-beam secured to the rod and moving therewith, and a shifting-lever connected with the rod.

5. In an oil-well-drilling machine, the combination with the sills thereon and samson-posts detachably secured thereto, of a rod adjustably mounted on said posts and provided with a bearing, a shifting-lever secured to one end of said rod, a bracket carrying studs acting as a fulcrum for the lever and a walking-beam secured to said rod in its bearing.

The foregoing specification signed at Sugar-creek, Pennsylvania, this 29th day of October, 1904.

JAMES R. SEMPLE.

In presence of—
M. A. SEMPLE,
LINDEN W. WOLFE.