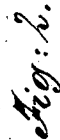


Derricks for Pumping and Boring Oil Wells.

Patented June 16, 1874.



WITNESSES:
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JOHN SCHELLKOPF, OF TIDIOUTE, PENNSYLVANIA.

IMPROVEMENT IN DERRICKS FOR PUMPING AND BORING OIL-WELLS.

Specification forming part of Letters Patent No. **152,176**, dated June 16, 1874; application filed May 16, 1874.

To all whom it may concern:

Be it known that I, JOHN SCHELLKOPF, of Tidioute, in the county of Warren and State of Pennsylvania, have invented a new and Improved Rig for Boring and Pumping Oil-Wells, of which the following is a specification:

Figure 1 represents a side elevation of my improved rig for boring and pumping oil-wells, and Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of my invention is to construct for boring and pumping oil-wells an improved rig, which is made up of lighter timber, dispensing with the use of the heavy timber required at present for the band-wheel blocks, samson's post, and walking-beam, and admitting that the rig may be taken apart, put up, and transported from place to place with greater facility, and a saving of timber, time, and labor.

My invention consists in constructing the band-wheel blocks, and samson's post, and walking-beam of oil-well rig of lighter timber, with braces and cross-bolts, as hereinafter more fully set forth.

In the drawing, A represents a part of the foundation, consisting of strong lateral pieces with central notches, into which the mud-sill B is firmly keyed by suitable wedges after its parts have been spliced together. The band-wheel blocks C are supported on lateral pieces *b*, keyed to the mud-sill B, an intermediate piece, *b'*, being constructed instead of solid pieces of longitudinal top and bottom pieces *d*, which are rigidly connected by interlocking diagonal braces *e* and strong vertical rods *f*, requiring but half the timber and saving a great amount of hard labor in putting them up and in removing them. The samson's post D is constructed of two strong pieces, E, in place of the single solid one, which are spliced

into the mud-sill and placed under suitable inclination, to be connected at the required height by a top piece, E¹, with side bearings E², cast in one piece therewith, for the shaft of the walking-beam. The top piece E¹ is firmly connected to the mud-sill by strong small rods *g* and screw-link *g'*, the braces E being in similar manner fastened to the cross-piece *a* by guy-rods or wooden braces *h*, as desired. By using band-wheel blocks and samson's post of such construction, which combines lightness with strength, the mud-sill may also be reduced in size without decreasing the efficacy of the same. The walking-beam F is pivoted to the bearings E² by its shaft or gudgeons *h'* in the usual manner, and constructed like the band-wheel blocks C of light timber, with curved longitudinal top and bottom pieces *l*, diagonally interlocking and diminishing braces *m*, and vertical stiffening rods or bolts *n*, as shown in Fig. 1. The increased expense for the heavy timber hitherto used for the rig, which is getting scarcer every day, is in this manner dispensed with, and a rig just as good and strong as the old one produced, with less material and time, together with greater ease in handling during the putting up and transporting of the same from one locality to another.

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

The improved rig for boring and pumping oil-wells, consisting of the combination of the supporting cross-pieces and mud-sill with band-wheel blocks, samson's post, and walking-beam, supporting-braces, and stiffening-rods, substantially in the manner shown, and for the purpose described.

JOHN SCHELLKOPF.

Witnesses:

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