No. 852,486. PATENTED MAY 7, 1907.

P. YORKE.

DERRICK.

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Fig. 1.

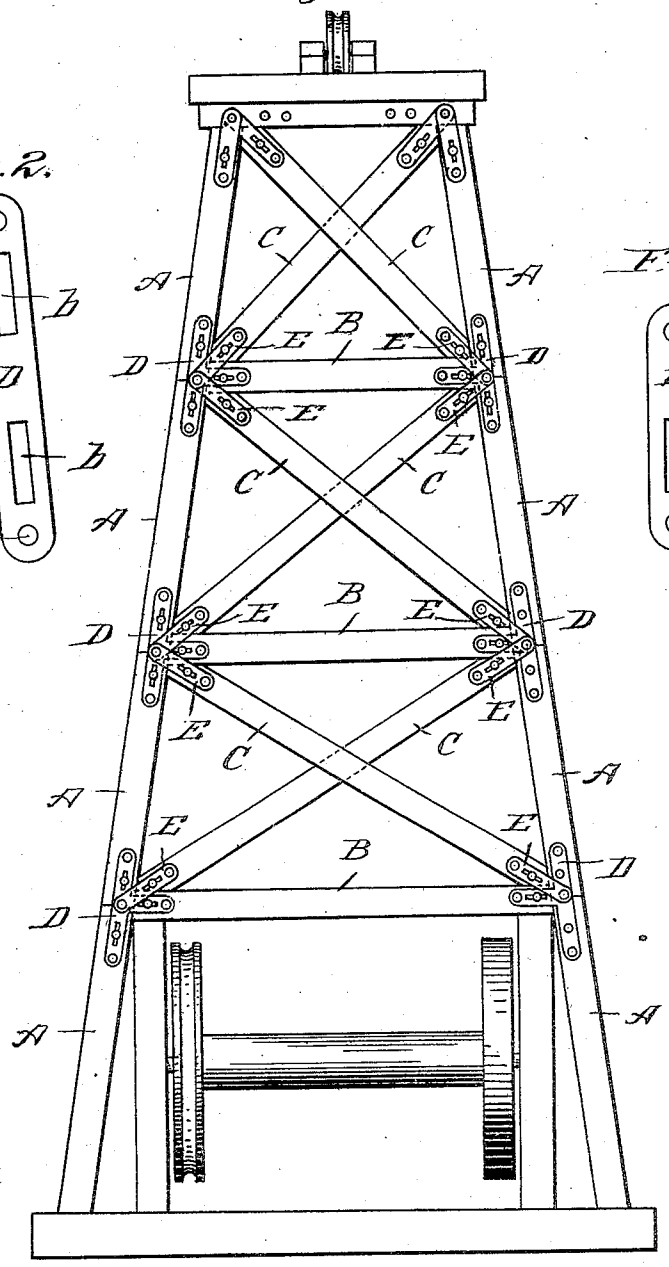


Fig. 2.

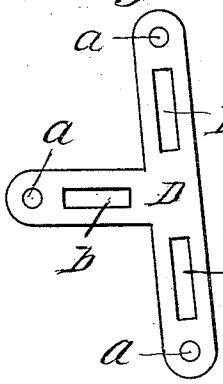
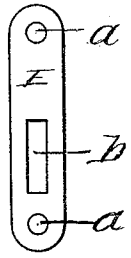


Fig. 3.



Witnesses:

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DERRICK.

No. 852,486. Specification of Letters Patent. Patented May 7, 1907.

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To all whom it may concern:

Be it known that I, PATRICK YORKE, a citizen of the United States, residing at Washington, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Derricks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others to make and use the same.

My invention relates to derricks, particularly for oil, gas and Artesian wells, and the objects are to construct a derrick of solid hewn or sawed timbers and in such a manner as to permit of the derrick being taken down when desired without damaging any of the timber.

This derrick is especially valuable in sections where timber and lumber are scarce. Besides, it does not require the services of skilled derrick builders to construct one of my derricks. All that is necessary is to cut the timber to the proper lengths and bore the holes for the bolts.

I will now describe my invention reference being had to the accompanying drawings, in which,

Figure 1, is a front elevation of a derrick constructed after my principle. Fig. 2, is a detail view of the main joint or T iron and Fig. 3, is a detail view of the cross-arm brace-irons.

Similar letters of reference indicate corresponding parts in the different figures of the drawings.

The derrick is composed of as many sections A, as is necessary to make it the height required, and is provided with cross-arms B, and braces C, the same as ordinary oil well derricks; the only difference being, that I use square hewn or sawed timbers instead of board sawed lumber. Each of the joints being secured together by T irons D, and brace-irons E. One set of these irons being placed on each side of each joint and firmly bolted thereto, forming a very secure and rigid joint, as in drawing up the bolts acts as a clamp. These irons D and E, are provided with holes *a*, and slots *b*, the purpose of the slots *b*, being to meet any variation of distance in the bolt holes in the timbers, as part of the holes in same are or may be bored before the timbers are raised into place, and the balance of the holes bored afterward.

By the use of a derrick, constructed after my invention, it may readily be taken down and removed to other locations, without any damage to the timbers; whereas, the old style derrick cannot be taken down without destroying the greater part of the lumber: Besides, no skilled derrick builders are required to build a derrick after my invention, as there is nothing to be done but to cut the timbers into the required lengths and bore the holes for the bolts and bolt the irons on. Thus a derrick may be built much cheaper and quicker, and will be more lasting and serviceable than the derricks now in use.

Having described my invention, what I claim is:

In a derrick for oil or Artesian wells, the combination of the corner uprights, girths and brace-timbers of T-irons and brace-irons provided with holes and slots, said irons being placed on both sides of the timbers at the intersection of the girths and braces, and clamped in a rigid position by means of bolts, substantially as shown and described.

In testimony that I claim the foregoing, I have hereunto set my hand in the presence of two witnesses.

PATRICK YORKE.

Witnesses:
MINNIE A. LEONARD,
MARK M. DECKER.