No. 898,027. PATENTED SEPT. 8, 1908.

P. YORKE.

DERRICK.

APPLICATION FILED JAN. 23, 1908.

Fig. 2.

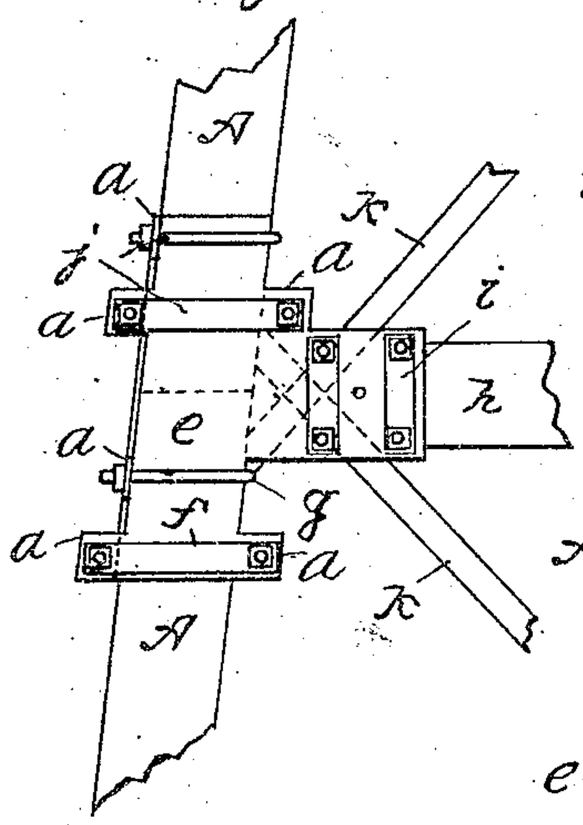

Fig. 3.

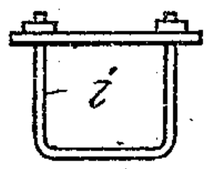

Fig. 4.

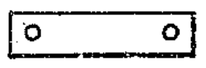

Fig. 5.

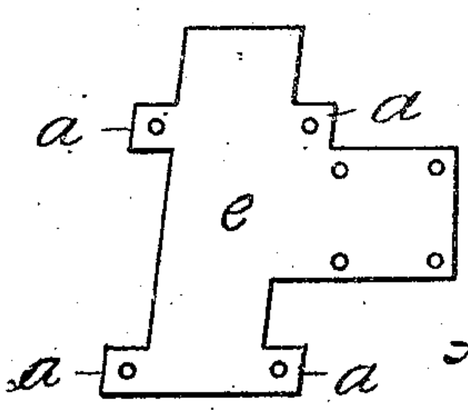

Fig. 6.

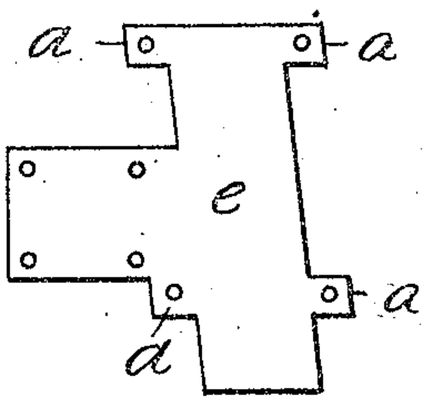

Fig. 1.

Witnesses:
W. A. McCausland
W. W. Boyd

Inventor,
Patrick Yorke,
By Mark McLeckie
Attorney.

UNITED STATES PATENT OFFICE.

PATRICK YORKE, OF WASHINGTON, PENNSYLVANIA.

DERRICK.

No. 898,027. Specification of Letters Patent. Patented Sept. 8, 1908.

Application filed January 23, 1908. Serial No. 412,327.

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 a certain new and useful Improvement in Derricks; and I do hereby declare the following to be a full, clear, and exact description of my invention, such as will enable others skilled in the art to which it appertains to construct and use the same.

My invention relates to derricks and particularly to derricks constructed of wood, for oil, gas and Artesian wells, and consists in certain novel features and details of construction as will be more fully described hereinafter and finally pointed out in the claim.

This invention constitutes an improvement over my former patents Nos. 852,486 and 877,624 issued May 7th, 1907 and January 28th, 1908 respectively.

I will now describe my invention reference being had to the accompanying drawings, in which similar letters of reference indicate corresponding parts in the different figures, and in which,

Figure 1, is a side elevation of a derrick constructed in accordance with my improvements. Fig. 2 is a side elevation of one of the joints or sections in detail. Fig. 3, is a detail view of the yoke employed. Fig. 4, is a detail plan view of the yoke-plate. Fig 5, is a side elevation of one of the section plates, and Fig. 6, is a side elevation of the section plate which is placed at right angles to that shown in Fig. 5, at the same joint.

I will now describe my invention which is as follows:

The corner posts or uprights of the derrick are made in several sections A, as in my former patents above referred to, but instead of being secured together by means of plates and bolts which passed through holes bored in the timbers, I now use only two plates at each joint, both of which are placed on the outside of the corner uprights at right angles to each other, and instead of boring the timbers and bolting the plates on as heretofore, I have constructed different shaped plates as best shown in Figs. 5 and 6, which are provided with ears or lugs *a*, on the sides, with holes therein, and also a series of holes in the tongue thereof, the purpose of which is to form projections which extend out past the edges of the uprights for receiving clamps or yokes, as will be more fully described hereinafter.

In constructing a derrick after the present invention, the base or bottom timbers B, are put into place and are held by means of angle-irons placed on the top and bottom thereof and secured by clamps or yokes *b*. The first section of the corner posts or uprights are then raised and clamped in place by means of angle-irons *c*, and yokes *b'*, and *d*. T-irons *e*, are then clamped on to the corners of these uprights, near their tops by means of yokes *f*, and *g*, and the girths *h*, are then put into place and clamped by means of yokes *i*. The second section of the uprights are then raised and clamped by means of the yokes *j*; and T-irons *e*, secured to the tops thereof the same as in the first section; this same construction being carried out at each joint or section of the derrick until the desired height is attained. Braces *k*, are raised into place and the ends thereof crossed and slipped under the yokes and are rigidly clamped and held in position thereby.

By the present construction, it will be seen that a very rigid derrick may be constructed without the use of nails, bolts or screws, or the necessity of boring holes, as was the case in my former inventions, thereby doing away with a great deal of labor and unnecessary expense in derrick construction.

Having described my invention, what I claim and desire to secure by Letters Patent is—

A derrick for oil, gas and Artesian wells, constructed of several sections which together with the girths and braces are rigidly secured and held in position by means of angle and T-irons and yokes which embrace said parts forming clamping devices therefor, all substantially as shown and described.

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

PATRICK YORKE.

Witnesses:
BLANCHARD G. HUGHES,
H. B. HUGHES