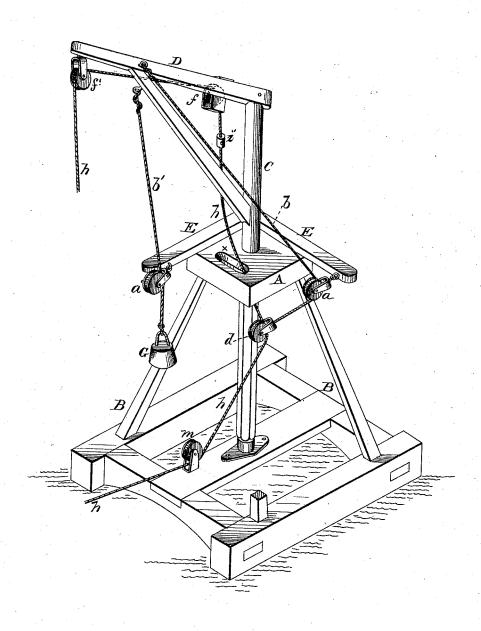
G. W. NICKLE. DERRICKS.

No. 184,168.

Patented Nov. 7, 1876.



WITNESSES Franck L. Ourand. Stenry N. Miller

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UNITED STATES PATENT OFFICE.

GEORGE W. NICKLE, OF MATTOON, ILLINOIS.

IMPROVEMENT IN DERRICKS.

Specification forming part of Letters Patent No. 184,168, dated November 7, 1876; application filed May 13, 1876.

To all whom it may concern:

Be it known that I, GEORGE W. NICKLE, of Mattoon, in the county of Coles, and in the State of Illinois, have invented certain new and useful Improvements in Derricks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a derrick, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view of my invention.

A represents the usual platform, supported upon the frame-work B, and having the vertical shaft C of the crane passing through it. D is the projecting arm of the crane, braced in the usual manner. On top of the platform, along two sides thereof, are secured arms or timbers E E, each of which has a pulley or sheave attached to its outer end on the inner side, said pulleys being, respectively, marked a and a'. To the projecting arm D of the crane are attached two ropes, b b'. The rope b passes around the pulley a, and has a pulley or sheave, d, attached to its lower end. The other rope, b', passes around the pulley a', and has a weight, G, attached to it. b is

the hoisting-rope, passing over two sheaves, f, on the crane-arm D; thence through an opening, x, in the platform, around the sheave or pulley d, and around the pulley m at the bottom of the derrick. On the hoisting-rope h, between the pulleys f and d, is an adjustable slide, i, fastened at any point on the rope desired by a set-screw or other suitable means. This slide is to be adjusted according to the height the load is to be elevated.

When the rope h is drawn to hoist the load, the slide i will strike the sheave or pulley d, and thereby pull the crane around with its load to the desired point of unloading, and when the rope h is slackened up, the weight G on the rope b' will bring the crane back to the point of starting.

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

The combination of the frame B, having slotted platform A and timbers E E, with pulleys a a', revolving crane C D, pulleys f f', rope b, pulley d, rope h, and the rope b', having weight G, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of April, 1876.

GEO. W. NICKLE.

Witnesses:
JAMES JOHNSON, Jr.,
A. PRITCHETT.