

(No Model.)

2 Sheets—Sheet 1.

A. MYERS.
DERRICK.

No. 474,142.

Patented May 3, 1892.

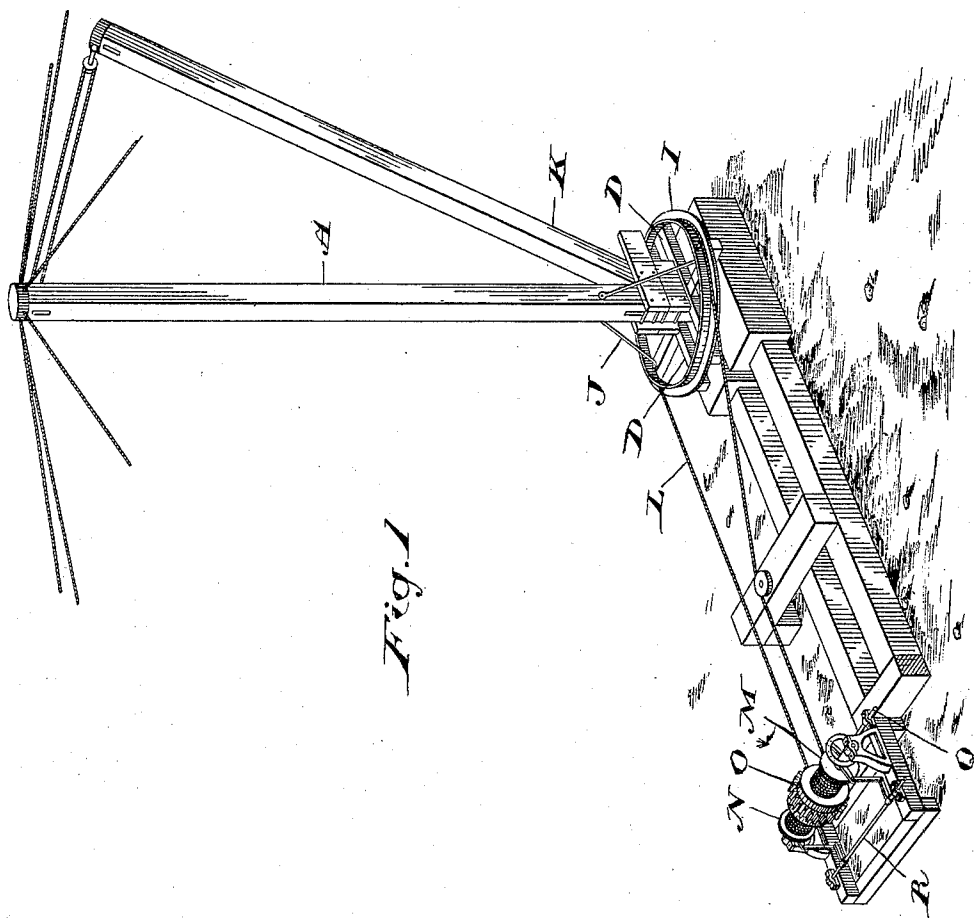


Fig. 1

Witnesses

J. Edw. Maybee
F. W. Woodward

Inventor

Augustus Myers.
By Donald S. Ridout & Co.
Attys

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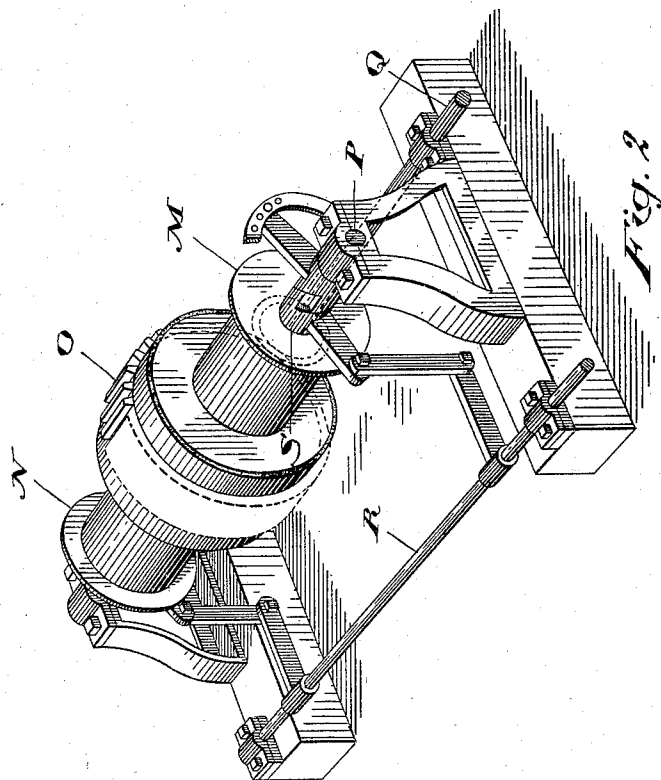


Fig. 2

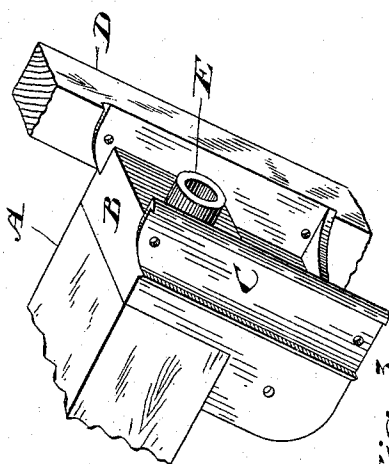


Fig. 3

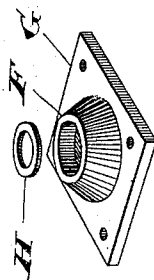


Fig. 4

Witnesses

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UNITED STATES PATENT OFFICE.

AUGUSTUS MYERS, OF TORONTO, CANADA.

DERRICK.

SPECIFICATION forming part of Letters Patent No. 474,142, dated May 3, 1892.

Application filed February 1, 1892. Serial No. 419,967. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS MYERS, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented a certain new and Improved Derrick, of which the following is a specification.

The object of the invention is to arrange a derrick by which stone or other heavy objects may be moved from one point to another practically without manual labor; and it consists in the peculiar construction, arrangement, and combinations of parts hereinafter more particularly described, and then definitely claimed.

In the accompanying drawings, Figure 1 is a perspective view of my improved derrick. Fig. 2 is a detail of the winding-drum. Fig. 3 is a detail of a step forming the lower half of the mast-journal. Fig. 4 is a detail of the bottom of the mast.

In the drawings like letters of reference indicate corresponding parts in each figure.

In the drawings, A represents the mast of the derrick, the bottom of which rests in and is fixed to the shoe B. On each side of the shoe B, I form a flange C, to which flange a cross-timber D is securely fastened. A hub E is formed on and projects from the shoe B. (See Fig. 4.) This hub E is made to fit into an annular recess made in the projection F, formed on the step G, which rests on and is securely bolted to a suitable foundation. A steel washer H is fitted into the recess formed in the projection F and supports the hub E.

I is a flanged ring securely bolted to the timbers D and braced to the mast A by the diagonal stays J. A boom K fits into the shoe B in the usual way. The top of the mast A is properly stayed in the usual manner. Around the ring I, I carry a rope L, or the said rope may be divided into two and one end of each fastened to the ring I.

M N are rope-drums, one end of the rope L being attached to the drum M and the other end of the said rope to the drum N. Between the drums M and N, I place a gear-wheel O, fixed to the shaft P, on which the drums M and N revolve freely. The gear-wheel O

meshes with the gear-pinion fixed to the driving-shaft Q. These drums are put into motion by being pressed against the face of the gear-wheel O, and are so arranged that only one drum at a time shall be in contact with the said gear-wheel. This is accomplished by the rocking of the shaft R, which is connected by levers, as indicated, to a cam-block S, located one behind each drum. This construction is illustrated in Fig. 2; but as I do not claim anything new in the rope-drum it will not be necessary to describe it further in detail. From this description it will be seen that the mast A may be revolved in either direction by the action of the rope L, and that a heavy object upon the boom K may be moved from one point to another without any manual labor.

What I claim as my invention is—

1. In a derrick, a shoe B, having a mast A connected thereto and provided with flanges C C and hub E, in combination with cross-bars D D, connected to said flanges C C, a flanged ring I, connected to said cross-bars D D, a step G, arranged to support the mast and having a recessed projection F, forming a bearing for said hub E, and suitable mechanism for rotating said flanged ring, substantially as described.

2. In a derrick, a mast A, having the boom K connected thereto, a shoe B, connected to the bottom end of said mast A and provided with flanges C C, a hub E, projecting from said shoe B, cross-bars D D, connected to said flanges C C, a flanged ring I, rigidly connected to said cross-bars, stays J J, connecting said flanged ring with said mast, and a step G, arranged to support said mast and having a recessed projection F adapted to receive the hub E and form a bearing for the same, in combination with suitable gearing arranged to revolve said flanged ring I, substantially as described.

Toronto, January 15, 1892.

AUGUSTUS MYERS.

In presence of—

A. EDW. MAYBEE,
JOHN E. CAMERON.