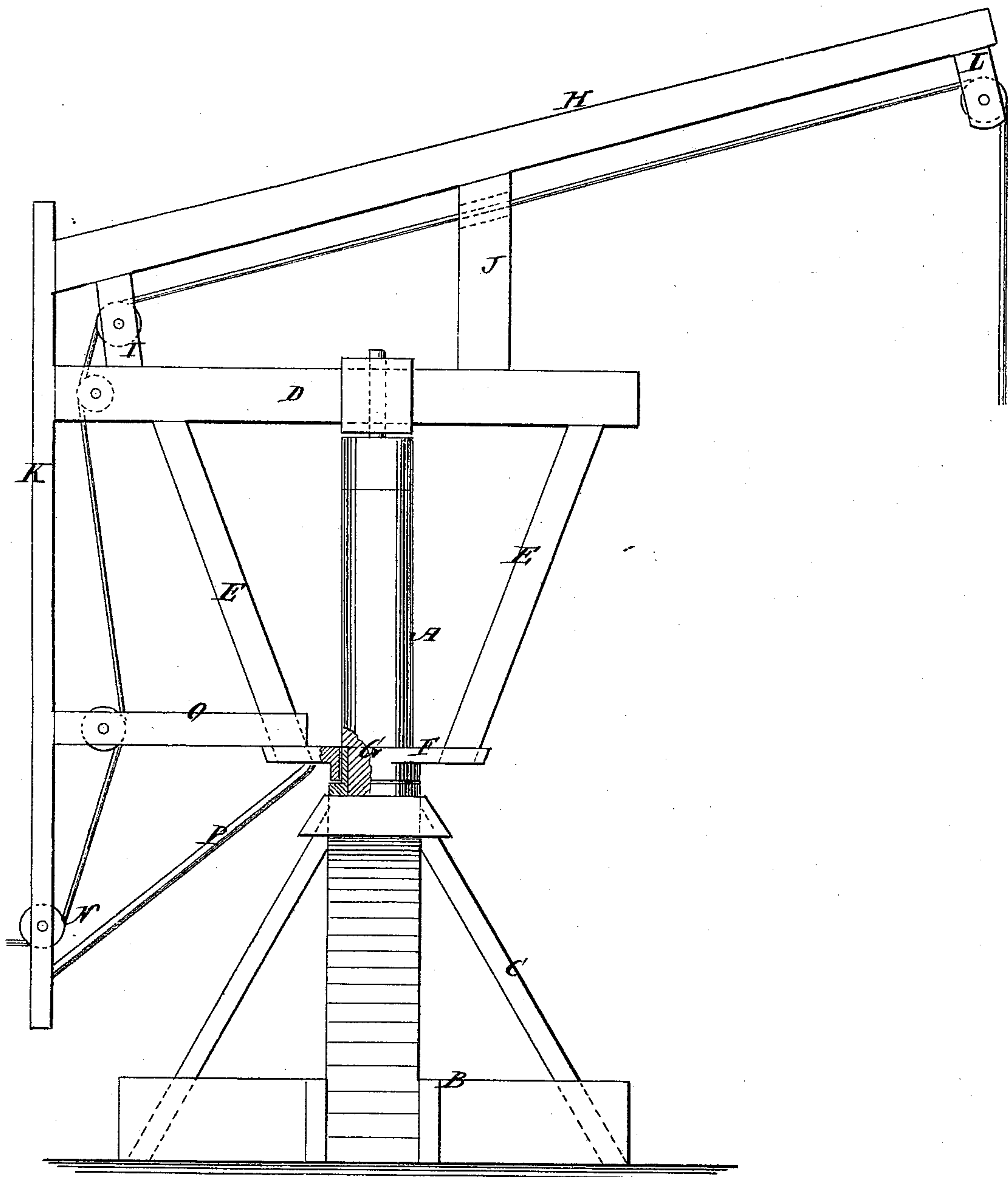


Derricks.

No. 151,313.

Patented May 26, 1874.



WITNESSES:

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Chiquier

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UNITED STATES PATENT OFFICE.

CHARLES ROBERTS, OF MATTOON, ILLINOIS.

IMPROVEMENT IN DERRICKS.

Specification forming part of Letters Patent No. 151,313, dated May 26, 1874; application filed April 11, 1874.

To all whom it may concern:

Be it known that I, CHARLES ROBERTS, of Mattoon, Coles county, Illinois, have invented a new and Improved Derrick, of which the following is a specification:

My invention consists of an inclined sweep mounted on a frame pivoted on the top of the post, and also pivoted to said post at or about its middle, and braced in a simple and efficient way, so that the weight may be raised higher than the post, and the sweep may revolve entirely around the post, making an efficient apparatus for loading and stacking hay, handling coal and the like; and one that, on account of its low elevation, is well adapted for being portable, by having the post mounted on a platform instead of on the ground.

The drawing is a side elevation of my improved derrick, with a part broken out to show the arrangement of the lower pivot.

A is the post, which, in this example, is mounted on a platform, B, and supported by braces C. D is a cross-beam, pivoted to the post at the top, and connected by strong braces E with arms F of a collar, G, fitted on the shaft, about the middle of it, to revolve freely. H is the sweep or yard, mounted above the beam D, on posts I J and the long bar K, in an inclined position, so that the end L, from

which the rope is suspended, is elevated considerably above the top of the post, thus enabling the weight to be lifted higher than the post. The bar K extends downward low enough to serve for holding the guide-pulley N, from which the rope runs to the team, and it is stayed to the collar G by the bar O and brace P.

It will readily be seen that this derrick will be stronger and more useful than the ordinary ones, on which the weight is suspended wholly from one side, and which can be turned only part-way round.

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

1. The beam D, pivoted to the top of the post, and also to the middle by braces E and collar F, and supporting the sweep or yard H by the posts I J and bar K, substantially as specified.

2. The bar K, having rope guide-pulley N pivoted thereon, and connected to sweep H, beam D, bar O, and brace P, substantially as specified.

CHARLES ROBERTS.

Witnesses:

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