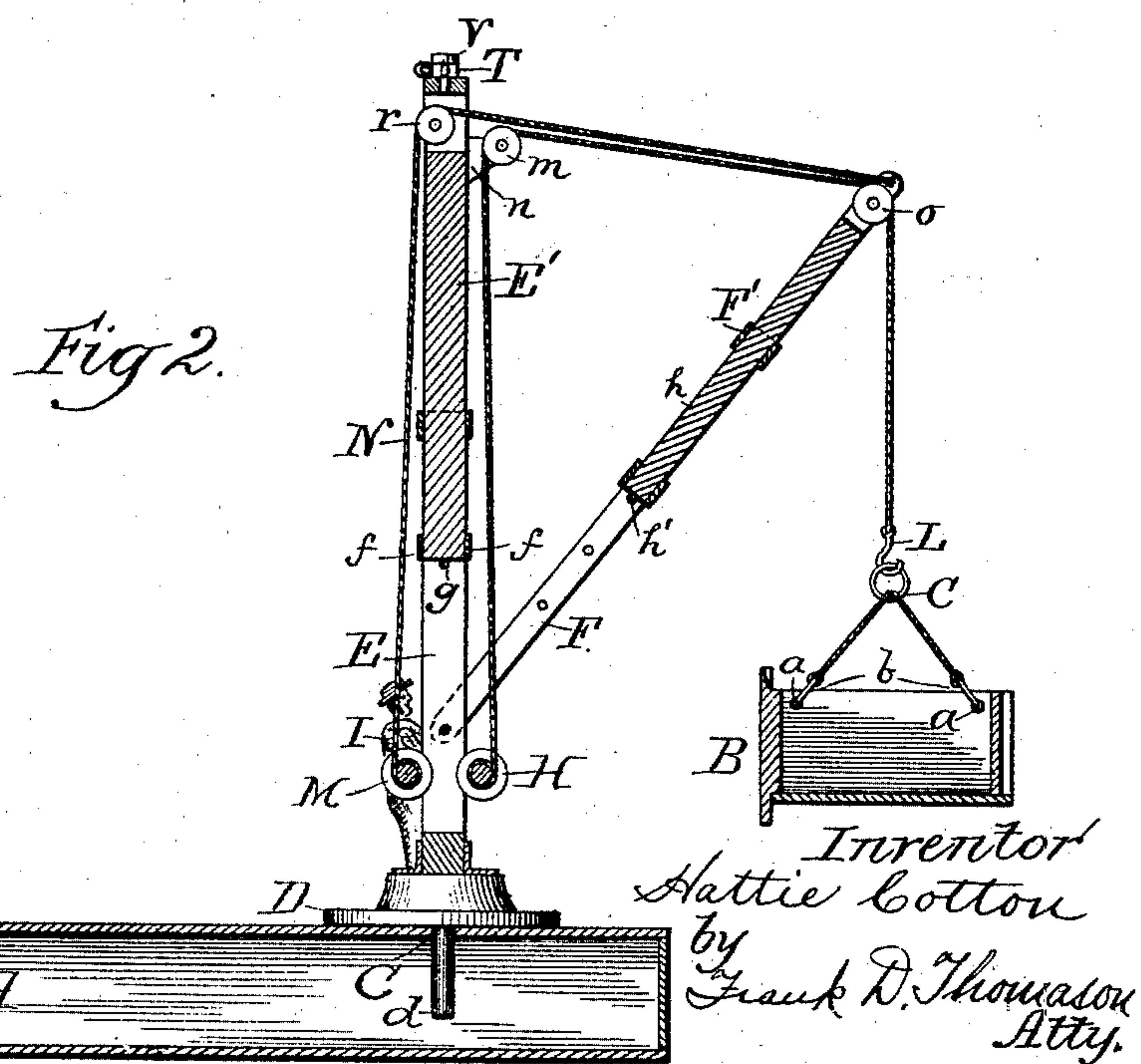
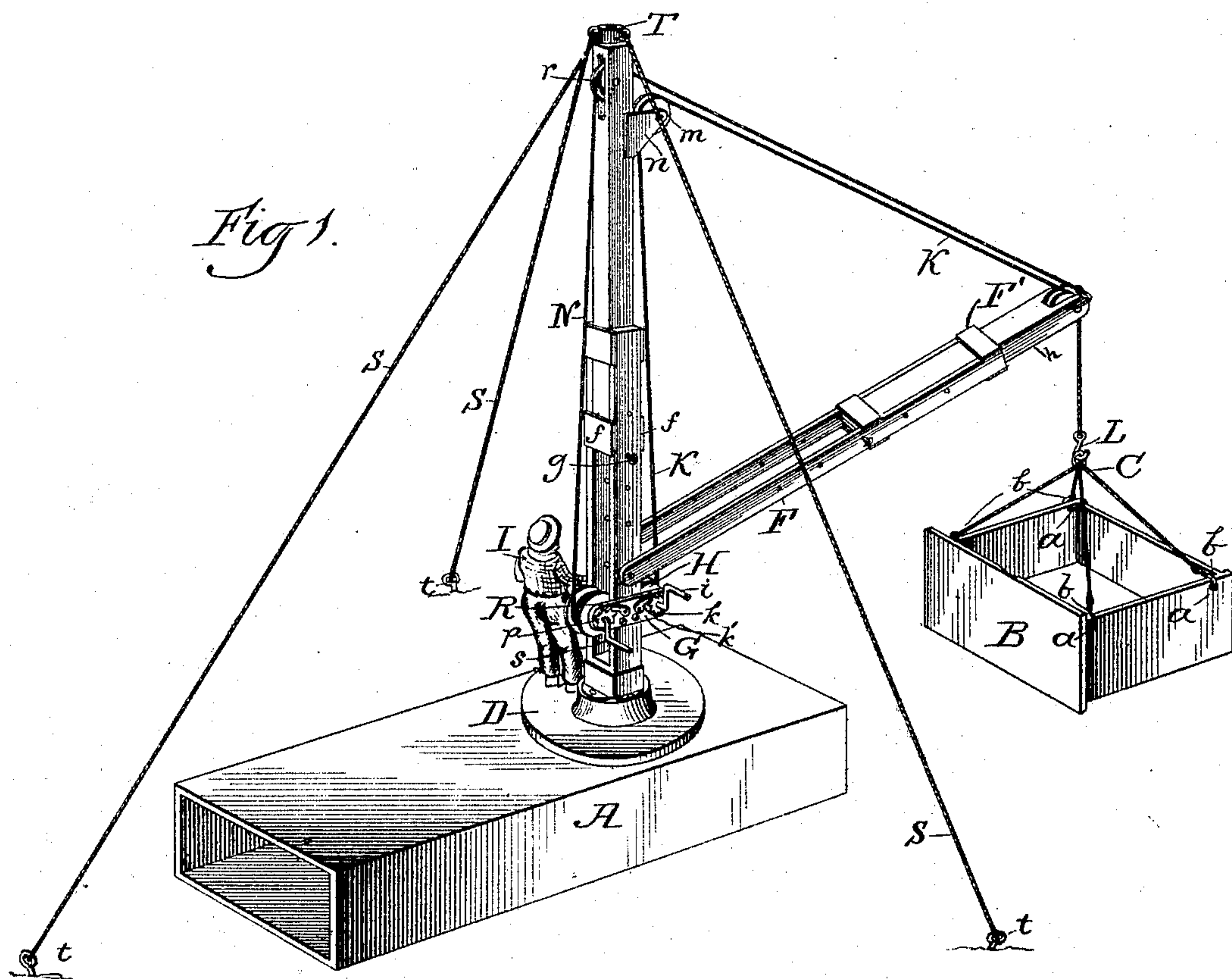


(No Model.)

H. COTTON.  
TOY DERRICK.

No. 495,625.

Patented Apr. 18, 1893.





# UNITED STATES PATENT OFFICE.

HATTIE COTTON, OF EVANSTON, ILLINOIS.

## TOY DERRICK.

SPECIFICATION forming part of Letters Patent No. 495,625, dated April 18, 1893.

Application filed August 13, 1892. Serial No. 442,963. (No model.)

*To all whom it may concern:*

Be it known that I, HATTIE COTTON, of the city of Evanston, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Toy Derricks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of my invention is to provide a novel and interesting toy, which is particularly adapted for playing in the sand on the beach.

In the drawings: Figure 1 represents a perspective view of my invention, and Fig. 2 represents a longitudinal vertical central section therethrough.

Referring to the drawings A represents a base consisting of an oblong box, open at one end, and provided with a drawer B. This drawer is, preferably, less in length than one half of the length of the base, and instead of being provided with a knob or handle, has its upper edge, about its center of length, provided with a finger niche. It is also provided with holes *a* in its sides near the corners, through which the hooks *b*, *b*, on the ends of four corresponding chains of the bail C, pass, when it is desired to use said drawer as a "truck," substantially as hereinafter more fully explained. About the center of the base is a vertical opening C for the reception of the pivotal stud *d*, projecting down centrally from the platform D. Secured to and arising from the raised center of this platform is a mast E, the upper part of which consists of two corresponding parallel uprights that are suitably strapped together so that the topmast E' can telescope down between them.

In order to steady the topmast, I provide the lower end thereof with cross-blocks *f*, *f*, the projecting edges of which lap against and embrace between them the edges of the uprights of the mast. The topmast can be adjusted vertically, and maintained in such adjusted position by means of a transverse pin *g* passed through suitable openings, made with reference thereto, in the mast under the heel of the topmast. Fulcrumed to the mast about two or three inches above the platform is a boom F. This boom consists of two par-

allel bars whose inner ends are pivotally connected to the outer sides of the uprights of the mast proper, and whose outer ends are connected by suitable cross-plates F', as shown. Placed between the bars of the boom is an extension or jib *h*, the outer end of which extends beyond the outer ends of the parallel bars of the boom, and which can be adjusted longitudinally so as to lengthen or shorten the boom, and maintained in such position by means of a transverse pin *h'*, passed through suitable transverse openings, made with reference thereto, in the boom.

Secured to the same sides of the mast as the inner ends of the parallel bars of the boom are pivoted, are corresponding horizontal frames G, G, the ends of which extend beyond the edges of the uprights of the mast proper. In the ends of these frames extending in the same direction as the boom, is journaled the shaft of the windlass H, the ends of which extend beyond their bearings, and are either bent so as to form handles *i*, or are so shaped as to receive a removable crank. One end of the shaft of the windlass I prefer to bend to assume the shape of a crank, and to attach to the handle thereof the hands of a jointed doll I, suitably dressed to represent a workman. The opposite extended end of this windlass shaft, just next the frame G, is provided with a ratchet *k* which is engaged by a gravity pawl *k'* to prevent the hoisting rope K from unwinding from the windlass. This hoisting rope upon leaving the windlass H extends upward to and around the sheave *m* journaled in the ends of brackets *n*, which are secured to and project from the topmast near its upper end. From sheave *m* the hoisting rope extends to and around a sheave *o*, suitably journaled between the bifurcations in the outer end of the jib, and then depends downward and is provided with a hook L on its free end. This hook, when it is desired to lift the drawer, or "truck" or "cage" B, is caught through the eye of the bail C, from which the four corresponding chains thereof depend, and, when the hoisting rope is wound on windlass H, lifts the same. To wind the hoisting rope on said windlass the crank on the end of the shaft thereof opposite that to which the doll I is secured is manipulated by



hand. As this is done the doll, the feet of which are, preferably, pivotally connected to the platform, bends to his work like a little man, and greatly adds to the realistic effect of the toy.

5 Journalled in the ends of frames G, extending from the mast in the direction opposite to the boom, is the shaft of the windlass M. The rope N for lifting the boom is wound on this 10 windlass, and upon leaving the same extends up to near the top of the topmast, then around the concave sheave *r*, suitably journalled in the walls of the slot made through said topmast, on a plane above the sheave *m*, and 15 then pursues an oblique course to the end of the jib, to which it is secured by means of a staple or other suitable device driven into the end of said jib. In order to turn said windlass I extend the end of its shaft opposite the 20 side of the mast next which the doll is placed, and either bend it so as to conform to the shape of a crank, or construct it so as to receive the boss of a removable crank *s*, as shown; and in order to prevent the unwinding of the rope N I have provided the extended 25 end of said shaft next the frame G, with a ratchet *p*, which is engaged by a gravity pawl R, which prevents the reverse motion of the shaft, as shown.

30 If desired the mast may be given greater stability by means of the guy-ropes S, S, S, which are fastened at one end to the stakes *t*, driven into the ground a suitable distance from the base, and have their upper ends secured to the eyes projecting from the swivel 35 T, pivoted to the stud V fastened to the top of the topmast, as shown.

When it is desired to take down and pack the derrick hereinbefore described, the removable parts, such as the stakes *t*, guy-ropes 40 S, pins *g* and *h'*, removable cranks (if there are any), and the bail C, are placed in the drawer B, and, when the latter is shoved into the base, are kept secure from loss. This feature, with children, is a very important one, 45 and greatly insures the longevity of the toy as a plaything.

What I claim as new is—

1. The combination with a base A and

drawer B, of the revoluble platform D, mast 50 E, boom F, and hoisting tackle used in conjunction therewith, as set forth.

2. The combination with a base A, and drawer B, of the revoluble platform D, mast E and topmast E', boom F and jib *h*, and 55 hoisting tackle used in conjunction therewith, as set forth.

3. The combination with a base A, and drawer B, of the revoluble platform D, mast E topmast E' adjustable vertically, sheaves *m* 60 journalled near the top thereof, boom F, jib *h*, and sheave *o* journalled in the outer end thereof, of the windlass H, and the hoisting rope K, as set forth.

4. The combination with the base A and 65 drawer B, of the revoluble platform D, mast E, and boom F, of the windlass H having its journals extending beyond its bearings, and provided with cranks, a doll I, and the hoisting rope K, as set forth. 70

5. The combination with the base A, drawer B revoluble platform D, mast E and topmast E' thereof, and boom F and jib *h* thereof, of the windlass H, hoisting rope K, windlass M and rope N and sheaves *m*, *o*, and *r*, as set 75 forth.

6. The combination with the base A, drawer B revoluble platform D, mast E and boom F, of the windlass H, and pawl and ratchet for the same, hoisting rope K, windlass M, and 80 pawl and ratchet therefor, rope N, and sheaves *m*, *o*, and *r*, as set forth.

7. The combination with the base A, drawer B revoluble platform D, mast E, and boom F, of the windlass H, pawl and ratchet therefor, 85 doll I and hoisting rope K, and windlass M pawl and ratchet therefor, rope N and sheaves *m*, *o*, and *r*, as set forth.

8. The combination with base A, drawer B, bail C, revoluble platform D, mast E, and 90 boom F, of the windlass H, pawl and ratchet therefor, doll I and hoisting rope K, and windlass M, pawl and ratchet therefor, rope N, and sheaves *m*, *o*, and *r*, as set forth.

HATTIE COTTON.

Witnesses:

FRANK D. THOMASON,  
A. A. HALL.