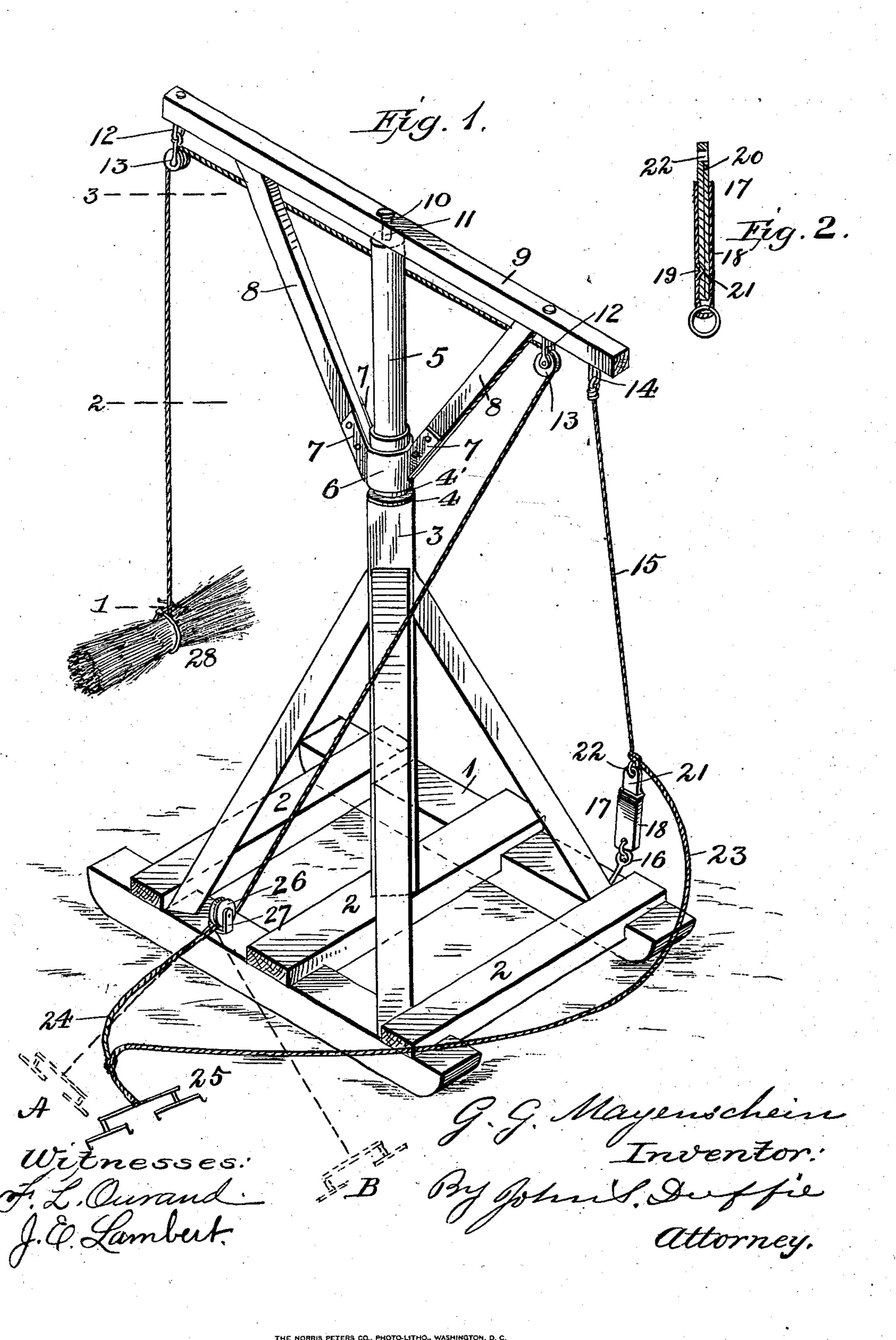
G. G. MAYENSCHEIN. HAY DERRICK.

(Application filed Mar. 11, 1902.)

(No Model.)



United States Patent Office.

GEORGE G. MAYENSCHEIN, OF SUNNYSIDE, WASHINGTON.

HAY-DERRICK.

SPECIFICATION forming part of Letters Patent No. 700,353, dated May 20, 1902.

Application filed March 11, 1902. Serial No. 97,767. (No model.)

To all whom it may concern:

Be it known that I, GEORGE G. MAYEN-SCHEIN, a citizen of the United States, residing at Sunnyside, in the county of Yakima 5 and State of Washington, have invented certain new and useful Improvements in Hay-Derricks, of which the following is a specification.

My invention is a derrick used for stackto ing hay, straw, and the like, and is known as the "flying-dutchman" derrick; and it consists in a frame having a braced central vertical post and a swinging beam journaled on the upper end of said post adapted to be re-15 volved by means of a cable, which cable at the same time elevates the hay while it is swung around to the proper place to be deposited.

In the accompanying drawings, Figure 1 is 20 a perspective view of my invention. Fig. 2

is a sectional view of the lock.

My invention is described as follows:

1 represents two sills, the under edges of their ends being beveled off, so as to round 25 them upwardly. 2 represents cross-beams rigidly secured to the said sills. Extending vertically from the central cross-beam is a central braced post 3, which about two-thirds of the distance from its lower end has a shoul-30 der 4, and resting on said shoulder is a circular bearing 4', and from the said shoulder the said post is cylindrical, forming a cylindrical bearing 5. Working on the lower portion of this cylindrical bearing 5 and against 35 the upper of the circular bearing 4' is a collar 6, having extending therefrom at an angle of about forty-five degrees two armsockets 7, and extending from these armsockets at the same angle are secured two 40 braces 8, and secured to the upper ends of these two braces horizontally and on a line exactly at right angles to the post 3 is a swinging beam 9, and through the center of this swinging beam 9 is a perforation 10, and 45 extending downwardly through said perforation and into the upper end of the cylindrical bearing 5 is a headed bolt 11. Depending from each end of said swinging beam and from the under face thereof is a bearing 12, 50 and in each of said bearings is journaled a

one end of said swinging beam is a staple 14, in which is secured the upper end of a cable 15, and secured in the upper face of one of the sills 1 is an eye 16, to which is secured a 55 lock 17. The case part 18 of said lock is indented in one side, forming a catch 19, and the tongue part 20 has in its lower end a depression 21, in which fits the catch 19. The upper end of the tongue part of said lock is 60 provided with an eye 22, and in said eye 22 is secured the lower end of the cable 15, and in said eye 22 is secured one end of an operating-cable 23. Said cable passes around to the front side of the frame and is secured to 65 a hoisting-cable 24 near its front end. The front end of said hoisting-cable has secured thereto a double and a pair of single trees 25. Said cable runs back and under a pulley 26, which is journaled in a keeper 27, secured to 70 the upper face of one of the beams, and runs up over the pulleys 13 and then hangs downwardly and bears in its swinging end a bundle of straw 28.

The operation of my invention is described 75 as follows: The first thing is to have the machine placed in proper position. On one corner of the frame is the lock 17, to which is secured the cable 15. This lock will be seen to fit one part within the other. The other 80 end of the cable is secured to one end of the swinging beam and keeps said end immediately over the lock. The operating-cable 23 when pulled taut unlocks the lock and allows the swinging beam 9 to swing around. 85 The hoisting-cable has secured to one end of it a team, and the height to which the straw or hay is made to rise depends in a large degree upon the direction in which the team is made to pull. If the team is made to pull in 90 the direction of the dotted lines A, the hav will rise about one-third of the distance between the base and the said beam 9 before the lock is unlocked. If pulled in the direction of the doubletree and singletrees 25, it 95 will rise about two-thirds before the lock is unlocked, and if pulled in the direction of the dotted lines B it will rise up to the pulley 13 before the lock is unlocked.

I do not affix to the free end of my cable 100 any particular trip, sling, or grapples, because pulley 13. Depending from the extreme of | I want to be free to use any kind of grapples,

hooks, or sling attachment that I may prefer in using my invention.

Having described my invention, what I claim as new, and desire to secure by Letters

5 Patent, is—

1. The combination of a base-frame, consisting of side sills 1, and cross-beams 2; a braced central post 3, having about two-thirds of the way from its face, a shoulder 4, and resting on said shoulder, a collar 4', the balance of said post terminating in a cylindrical bearing 5; a collar 6, encircling said cylindrical bearing 5, and resting on said collar just named; arm-sockets 7, extending up-15 wardly and at an angle of about forty-five degrees from said post; arms 8, secured in said sockets, and extending upwardly at the same angle; a swinging beam 9, secured horizontally to the upper ends of said arms 8, 20 and at right angles to said post; a bolt 11, passing through a perforation 10, in the beam 9, and into the upper end of the cylindrical bearing 5; a lock 17, secured to one corner of the base; a cable, one end secured to the 25 tongue part 21, of said lock, and the other to one end of the beam; a hoisting-cable 24, having a doubletree secured to its free end; said cable passing under a pulley 13, secured to one end of the beam 9, and over another 30 pulley 13, secured in the other end of said beam, and thence downwardly, and adapted to be secured to a sling or grapple-hooks, and an operating-cable having one end secured to the hoisting-cable, near the doubletrees, the 35 other end secured to the upper end of the tongue part 21, of the lock, substantially as I

shown and described and for the purposes set forth.

2. The combination of a base-frame; a vertical central braced post, having some dis- 40 tance from its lower end, a shoulder; a circular bearing resting on said shoulder, the balance of said post terminating in a cylindrical bearing; a collar journaled on said cylindrical bearing and resting on said circular 45 bearing; arms extending upwardly at right angles from said collar; a swinging beam secured horizontally to the upper ends of said arms; a bolt passing down through the center of said beam into the top of said cylin- 50 drical bearing; a lock secured to one corner of said base; a cable, one end secured to the tongue part of said lock and the other to one end of said swinging beam; a hoisting-cable, having a doubletree secured to one end, said 55 cable passing under a pulley secured to the base-frame, passing thence up over pulley secured to the under face of said cross-beam, and thence downwardly, and adapted to be secured to a sling or grapple-hooks, and an 60 operating-cable, one end secured to the hoisting-cable and the other to the upper end of the tongue part of the lock, substantially as shown and described and for the purposes set forth. 65

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE G. MAYENSCHEIN.

Witnesses:

J. B. GEORGE,

C. C. HEMUNDSON.