No. 736,234. PATENTED AUG. 11, 1903.

L. W. DELP.

HOISTING MACHINE.

APPLICATION FILED JAN. 22, 1903.

NO MODEL.

Fig. 1.

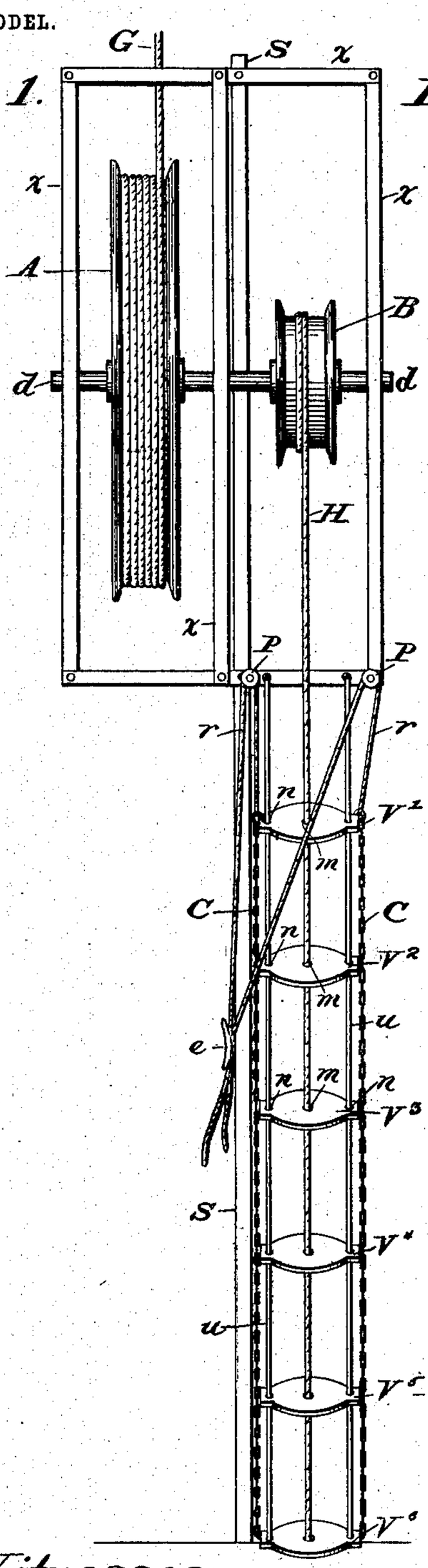
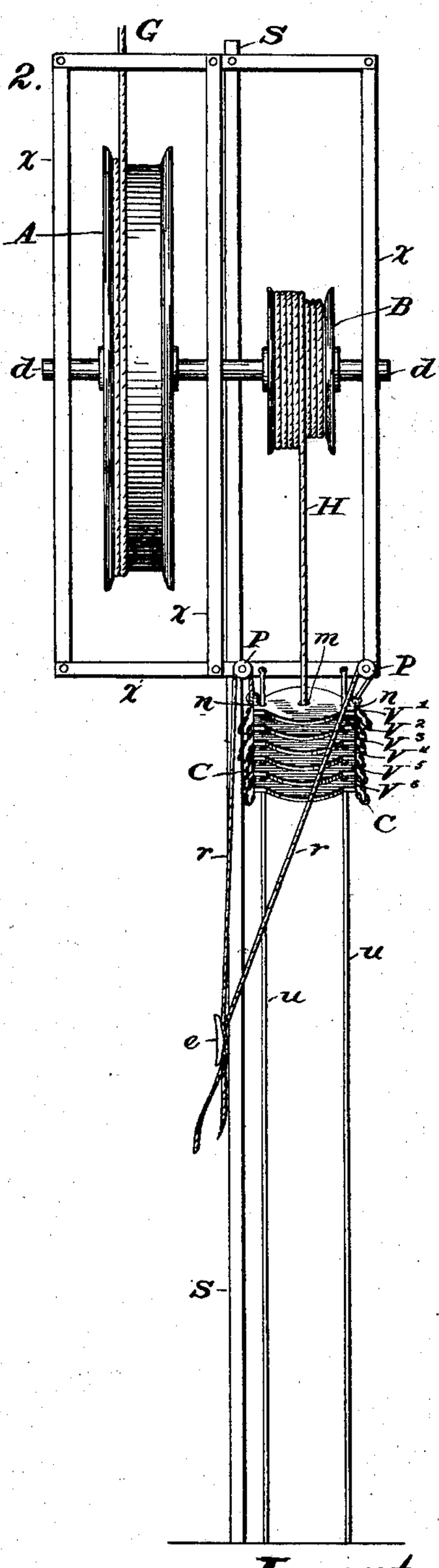


Fig. 2.



Witnesses:

Emmett May

H. D. Malfenbarger

Inventor:

Lewis W. Delp

No. 736,234. Patented August 11, 1903.

UNITED STATES PATENT OFFICE.

LEWIS W. DELP, OF PEORIA, ILLINOIS.

HOISTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 736,234, dated August 11, 1903.

Application filed January 22, 1903. Serial No. 140,194. (No model.)

To all whom it may concern:

Be it known that I, LEWIS W. DELP, a citizen of the United States, residing at No. 1900 South Adams street, in the city of Peoria, in the county of Peoria and State of Illinois, have invented a new and useful Hoisting-Machine, and particularly a Machine to Recall a Hay-Carrier to the Loading-Point, of which the following is a specification.

My invention relates to improvements in hoisting-machines, particularly a machine to recall a hay-carrier to the loading-point when unloaded, in which two drums and two ropes, being set in motion by weights, work in conjunction; and the objects of my improvement are, first, to provide a combination of machinery to recall a hay-carrier to the loading-point when unloaded; second, to provide an easy-working machine which will add small weight to the loaded carrier as it is pulled to its place of destination; and, third, to reduce the speed of the reverse action of the machine gradually until it has brought the carrier back, (and thereby prevent injury to the carrier.) I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a detailed view of the entire machine when carrier is ready for loading. Fig. 2 is also a detailed view of the machine, showing machine when carrier is pulled to its destination, being set to recall the carrier when unloaded.

Similar letters refer to similar parts throughout the several views.

The pieces of wood $x\ x\ x\ x\ x$, fastened together by bolts, form the framework of the machine.

$d\ d$ is an iron shaft secured to the pieces of frame $x\ x$ and to the center piece of frame x by means of holes in frame $t\ t\ t$. On this shaft $d\ d$, to the left of the center of the machine, is fastened a twenty-four-inch wood drum A, around which coils the rope G, one end of said rope G being secured to drum A and the other to the carrier on the track, and to the right of the center of the machine on the same shaft $d\ d$ is fastened the eight-inch wood drum B, around which coils rope H, one end of which is secured to drum B, and on the other end is fastened the weights $v'\ v^2\ v^3\ v^4\ v^5\ v^6$, which set machine in motion.

S S is a post extending from the ground to the carrier-track at the top of the barn. The machine is fastened on the post S S by means of bolts through the frame of machine and through the post.

$u\ u$ are iron rods fastened to the lower part of the frame and extending parallel to each other and parallel to the post S S to the ground, where they are firmly fastened.

$v'\ v^2\ v^3\ v^4\ v^5\ v^6$ are adjustable iron weights having each a circular hole $m\ m\ m\ m\ m\ m$ in the center, through which the rope H works; also, having circular holes $n\ n\ n\ n\ n\ n$ in the ends thereof, through which pass the iron rods $u\ u$.

$c\ c$ are iron chains suspended by ropes $r\ r$ and fastened to each of the weights $v'\ v^2\ v^3\ v^4\ v^5\ v^6$ in holes $n\ n\ n\ n\ n\ n$. Weights $v'\ v^2\ v^3\ v^4\ v^5\ v^6$ are fastened to chains $c\ c$ at desired distances apart. $p\ p$ are pulleys fastened to frame x, through which work the ropes $r\ r$.

e is an iron cleat on which is fastened the ends of ropes $r\ r$.

The way this machine works is this: As the loaded hay-carrier, attached to rope G, is pulled along the track to its destination the rope G uncoils from drum A, turning said drum, thereby turning the shaft $d\ d$ and drum B on said shaft and winding up on drum B, rope H thereby pulling up weights $v'\ v^2\ v^3\ v^4\ v^5\ v^6$ attached to said ropes, thereby setting the machine for reverse action. When the hay-carrier is unloaded, the weights, dropping, set in motion drum B, which turns shaft $d\ d$, thereby turning drum A and winding up on drum A rope G, and brings back the hay-carrier to the loading-point. As the machine reverses and the chains $c\ c$ are lowered the weights stop, respectively $v'\ v^2\ v^3\ v^4\ v^5\ v^6$, as the chains are lowered the full lengths between the weights. As they stop in their respective places they each lessen the speed of the machine gradually until the carrier is brought back to the loading-point. The weights $v'\ v^2\ v^3\ v^4\ v^5\ v^6$ are adjustable independent of each other. Ropes $r\ r$ hold the chain suspended, on which the weights are fastened, and the chains may be lowered or raised to suit the length of the carrier-track, higher for a long track and lower for a short track.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the frame work, drum A, rope G, shaft *d d*, drum B, rope H, post S S, rods *u u*, weights $v' v^2 v^3 v^4 v^5 v^6$, ropes *r r*, pulleys *p p'*, chains *c c*, all working together substantially as above described.

2. In hoisting-machines the combination of rope H on which run iron weights $v' v^2 v^3 v^4 v^5 v^6$ attached to chains *c c* and working on rods *u u* through holes *n n* and suspended by ropes *r r*, which may be adjusted higher or lower as desired, and which lessen the speed of the machine, all substantially as above set forth.

In testimony whereof I have signed my name to the specification in the presence of two subscribing witnesses.

LEWIS W. DELP.

Witnesses:
EMMET C. MAY,
J. B. WOLFENBARGER.