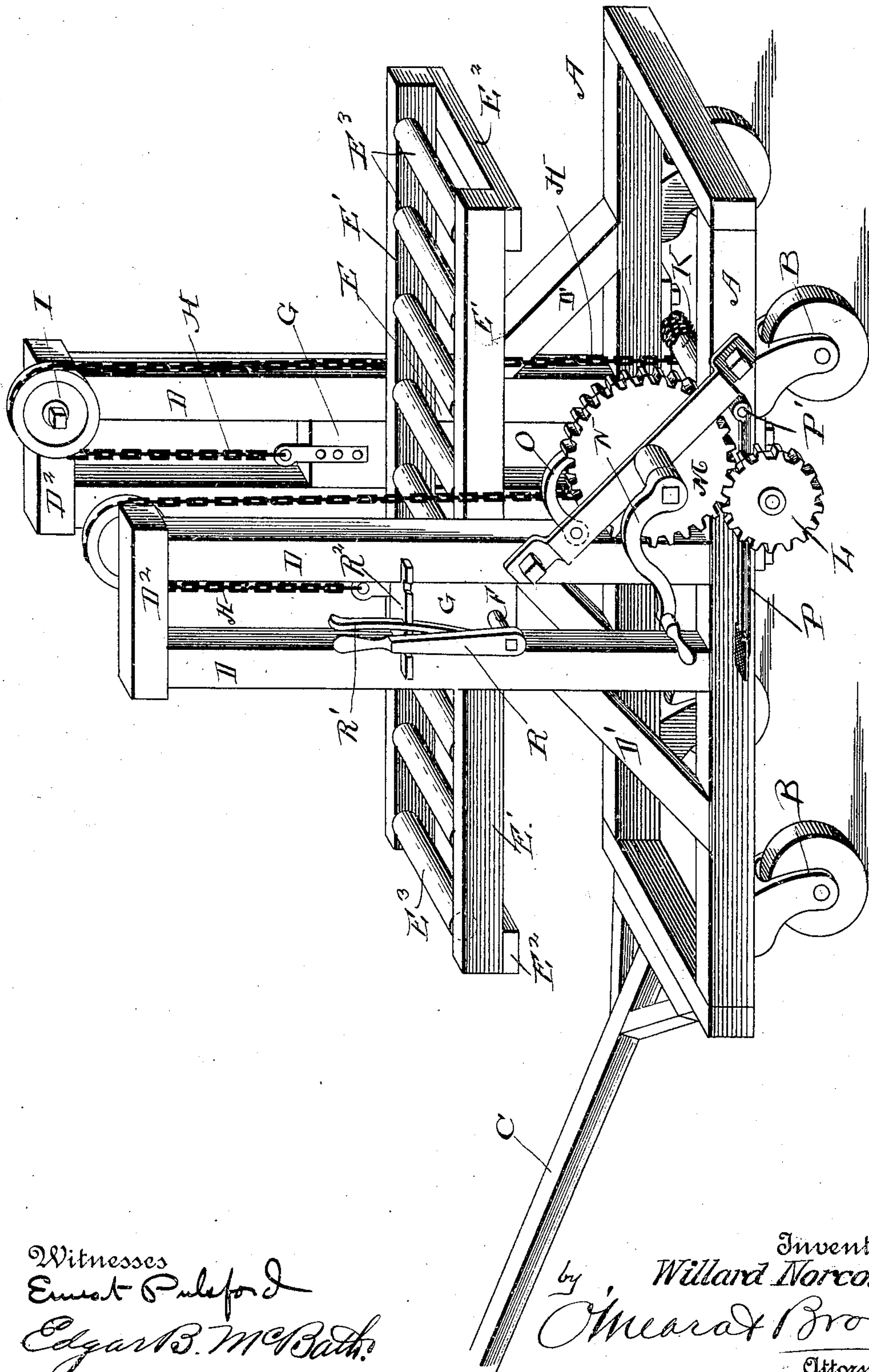


No. 792,232.

PATENTED JUNE 13, 1905.

W. NORCOTT.
MOVABLE ELEVATOR.
APPLICATION FILED AUG. 30, 1904.



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UNITED STATES PATENT OFFICE.

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MOVABLE ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 792,232, dated June 13, 1905.

Application filed August 30, 1904. Serial No. 222,765.

To all whom it may concern:

Be it known that I, WILLARD NORCOTT, a citizen of the United States, residing at Arnolds Park, in the county of Dickinson and State of Iowa, have invented a new and useful Improvement in Movable Elevators, of which the following is a specification.

This invention is an improved construction of movable elevator, the object being to provide a simple and efficient device by means of which heavy boxes, trunks, and the like can be lifted from a wagon to a car, or vice versa.

With these objects in view the invention consists, essentially, in the employment of a main frame having uprights at the opposite sides, said uprights carrying pulleys over which travel elevating-chains connected at their lower ends to a winding-shaft arranged upon the main frame, their upper ends being connected to the movable skid.

The invention consists also in pivoting said skid whereby either end can be raised or lowered; and the invention consists also in providing a locking mechanism for holding the skid in any desired position.

In the drawing forming a part of this specification I have shown a perspective view of a movable elevator constructed in accordance with my invention.

Referring to said drawing, A indicates a horizontal frame supported upon caster-rollers B and provided with a tongue C.

D indicates the parallel uprights connected to the side members of the frame A, braced by means of inclined braces D' and connected at their upper ends by the cross-pieces D².

E indicates the movable skid comprising the side members E', the end pieces E², and the rollers E³, connected to the side pieces E' and constituting the bottom of the skid. This skid is mounted upon a shaft F, passing through the blocks G, which slide up and down between the parallel uprights D, said blocks having the chains H connected thereto, which chains pass over the pulleys I, mounted upon the inner faces of the cross-pieces D², the lower ends of said chains being connected to the winding shaft or drum K, journaled in the main frame A and provided with a pinion L at one end, which is

adapted to be engaged by a large gear M, operated by the crank-handle N.

O indicates a pawl for locking the gear at any desired point, and P is a brake-lever pivoted at P' and adapted to bear upon the winding-shaft for the purpose of retarding its motion.

R indicates a hand-lever rigidly attached to the end of the shaft F, by means of which the skid can be tilted at any desired angle, said lever being provided with a spring-catch R', adapted to engage the notched plate R² for the purpose of locking the lever, and consequently the skid, at any desired point of adjustment.

In case it is desired to lift a heavy box, trunk, or other article, so that it can be placed in a wagon or car, the article to be lifted is arranged upon the skid and then by turning the crank the skid is lifted to the proper height and the article can then be quickly and easily rolled therefrom. If it is necessary to shift the skid to an inclined position, the spring-catch R' is disengaged from the notched plate and the hand-lever turned in the proper direction and the skid will then be shifted to the inclination desired and locked. In case it is desired to lower a heavy box, trunk, or other article the skid is first elevated to the proper height and the article arranged thereon, and then by releasing the pawl and placing the foot upon the lever the skid can be permitted to descend by its own weight and the rate of descent can be regulated by increasing or decreasing the pressure upon the foot-lever, as required.

It will thus be seen that I provide a simple, durable, and efficient construction of movable elevator capable of carrying out all of the objects hereinbefore referred to.

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

1. A device of the kind described comprising a main frame, the oppositely-disposed uprights connected thereto, the vertically-movable skid and means for moving the same, said skid being pivoted horizontally together with means for locking the same at any desired inclination.

2. A device of the kind described comprising the main frame, the oppositely-disposed uprights, the blocks sliding between the uprights, the skid pivotally mounted between
5 the said blocks and adapted to move vertically therewith, the chains connected to the blocks, pulleys over which the chains pass, the winding-shaft to which the lower ends of the chains are connected, means for rotating and locking
10 said shaft together with means for retarding the motion thereof, as set forth.

3. In a device of the kind described, the combination with the main frame and uprights, of the blocks sliding in the uprights,
15 the skid constructed as described and pivot-

ally mounted between the blocks, a lever for shifting said skid and means for locking said lever, the chains connected to the blocks, the pulleys over which the chains pass, the winding-shaft to which the chains are connected,
20 the pinion mounted upon said shaft, the gear meshing with said pinion and the crank-handle for operating the same, the pawl for locking said gear and the brake-lever for retarding motion of the winding-shaft, as set forth. 25

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