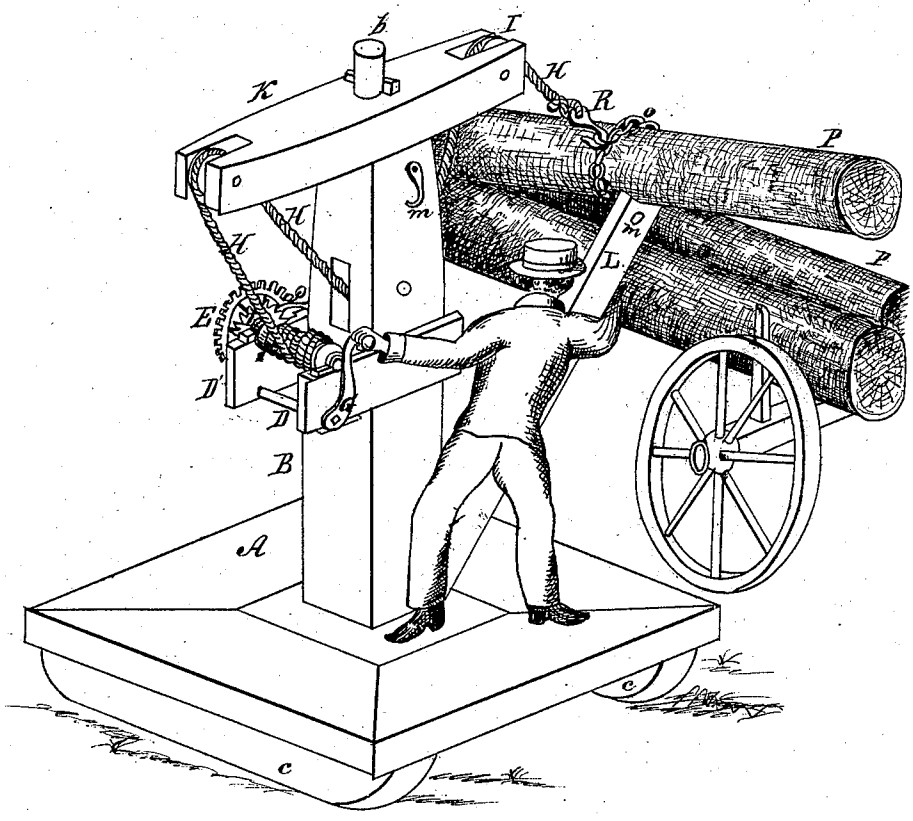
H. T. Goodling,

Derrick.

No. 80,067. Patented July 21, 1868.



Witnesses;
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J. A. Menges
Solomon Myers

Inventor;
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United States Patent Office.

HENRY T. GOODLING, OF YORK, PENNSYLVANIA.

Letters Patent No. 80,067, *dated July* 21, 1868.

IMPROVEMENT IN HOISTING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY T. GOODLING, of York, in the county of York, and State of Pennsylvania, have invented a new and improved Machine for Hoisting and Loading Logs; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, which clearly shows the construction and application of the same.

The nature of my invention consists in the arrangement of old well-known devices for hoisting purposes, made available under new combinations for a special purpose.

Any one skilled in the art can make and use my invention by simply inspecting the drawing, which clearly shows a platform or base, A, of the desired size. This rests upon sills C, rounded on the ends, sled-fashion, by a ring fastened to the outer edge of the platform. It can be readily moved from place to place, by hitching a horse to the same, if desirable. Centrally on the platform I erect a stout post, B, with a cross-top, K, turning on the neck *b* and shoulder of the post, held down by a wedge. The ends of this cross-head K are slotted, for the reception of grooved pulleys, as is also the centre of the standard or post B, opposite a drum-shaft, held in bearings D D′. The outer end of this shaft has a ratchet-wheel, F, and also a cogged wheel, E, which latter meshes into a pinion on a shaft connected with a crank-handle, G, a stout rope, H, being wound upon the drum-shaft, and the end carried over the pulley I in the cross-head K, and down under the pulley in the slotted post, and up to the outer pulley in the opposite side of the cross-head, where it terminates with a hook, R, or its equivalent. There is also a stout lever-arm, L, opposite the windlass, secured in a slot by a pivot-bolt, near the outer corner, so that when closed up against the post, it can be secured by a hook-catch, *m*, on the post, to a headed bolt, *n*, on the lever.

The operation is simple. For loading heavy saw-logs on a wagon, (in proper position,) a chain, *o*, is passed around the log, the rope H hooked to it, and, by the aid of the crank-handle and gear, the rope is wound up, the log raised, and, if not quite balanced, the far end is easily raised in this swinging position, (held by the pawl and ratchet,) and lodged upon the wagon, thus poised. The lever-arm L (rounded or notched at its upper end) is now inclined forward under the log, and bearing its weight partly, while the rope is slackened with one hand, and the lever more and more depressed with the other, the log will be easily lodged upon the wagon, single-handed if need be, as the illustration shows.

I am aware that there is no novelty in the parts employed, separately considered, but I am not aware that they have ever been combined and utilized in the manner and for the purpose set forth.

The turning cross-head is of use in swinging the log.

This machine may be available for other purposes, but I find it especially adapted to loading logs, which I found a laborious business, requiring more help than could always be on hand, and induced me to contrive the machine described, which meets the want, long experienced, of simple portable apparatus of the kind.

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

The construction of a hoisting-machine, arranged with a central post, B, turning cross-head K, provided with pulleys I, windlass, and a pivoted side-lever, L, to base of post B, combined substantially in the manner and for the purpose specified.

HENRY T. GOODLING.

Witnesses:

GEORGE W. REEVER,
SOLOMON MYERS,
J. H. MENGES.