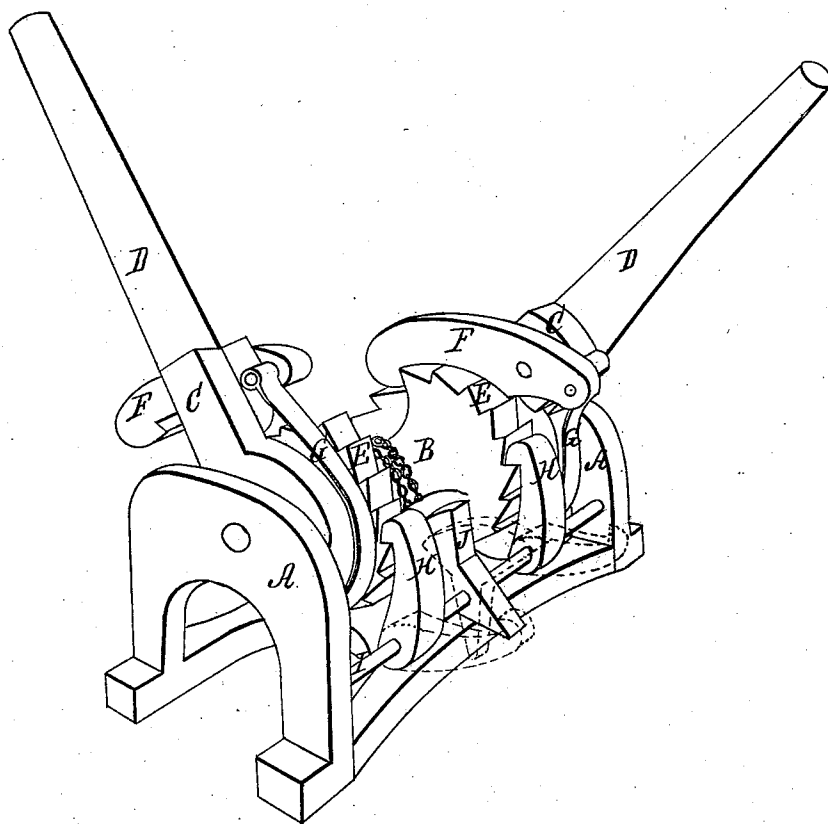


*A. Day,
Winclass.*

N^o 82,295.

Patented Sep. 22, 1868.



*Witnesses;
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United States Patent Office.

AUGUSTUS DAY, OF DETROIT, MICHIGAN.

Letters Patent No. 82,295, dated September 22, 1868; antedated September 16, 1868.

IMPROVEMENT IN WINDLASS.

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

TO WHOM IT MAY CONCERN:

Be it known that I, AUGUSTUS DAY, of Detroit, in the county of Wayne, and State of Michigan, have invented a new and useful Improvement in a Winch; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The nature of this invention consists in constructing a winch, provided with proper ratchet-wheels, pawls, and dogs, and levers, with friction-bands, to operate and control the motions of the apparatus.

This winch, as shown in the drawings, is intended for use on board vessels, for handling the centre-boards. It can be adapted to raising and lowering boats, and a large variety of uses, which it is needless to enumerate.

I will describe the apparatus as shown in the drawings, premising that but slight modifications are required to adapt it for handling anchors, boats, and almost any general purpose of hoisting or lowering weights.

A is a suitable frame to sustain the apparatus, into the two ends of which is properly journaled the solid cylinder B, upon the journals of which are loosely sleeved the sockets C, into which are inserted the handles D. These sockets are sleeved between the ends of the solid cylinder and the ends of the frame. Cast upon or rigidly attached to the solid cylinder, are the ratchets E, which are operated by the pawls F, pivoted to the sockets C, from which they derive their motion. G are friction-bands, one end of which is secured to the rear or short ends of the pawls, thence passing downwards and around the periphery of the ends of the cylinder B, outside of and between the ratchets E and sockets C, to a rod extending across the frame. H are dogs, rigidly attached to a similar rod, I, to which is also attached a counterpoise, J. The red lines show the position of the dogs and counterpoise when not in use. K is the chain leading from the winch to the article to be operated upon. The handles or levers D are operated alternately, compelling the pawls F to engage with the ratchets E, while the dogs H hold all that has been gained. In lowering any weight, throw both the levers D forward, after disengaging the dogs H, (which will then assume the position shown in red lines.) By thus throwing forward the levers D, the friction-bands are brought into contact with the periphery of the cylinder B, thereby enabling the operator to control the velocity of the descent.

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

1. The friction-bands G, in conjunction with the pawls F, the rod heretofore described, and the cylinder B, when operating substantially as and for the purposes set forth.
2. The dogs H, rod I, and counterpoise J, when arranged and operating substantially as herein described.
3. The combination and arrangement of the above-mentioned parts with the frame A, the cylinder B, the sockets C, the handles or levers D, the ratchets E, and the chain or rope K, when constructed and operating substantially as herein specified, set forth, and described.

AUGUSTUS DAY.

Witnesses:

H. S. SPRAGUE,
J. W. HOUGHTLIN.