

WILLIAM ROGERS.

Improvement in Windlasses.

No. 124,087.

Patented Feb. 27, 1872.

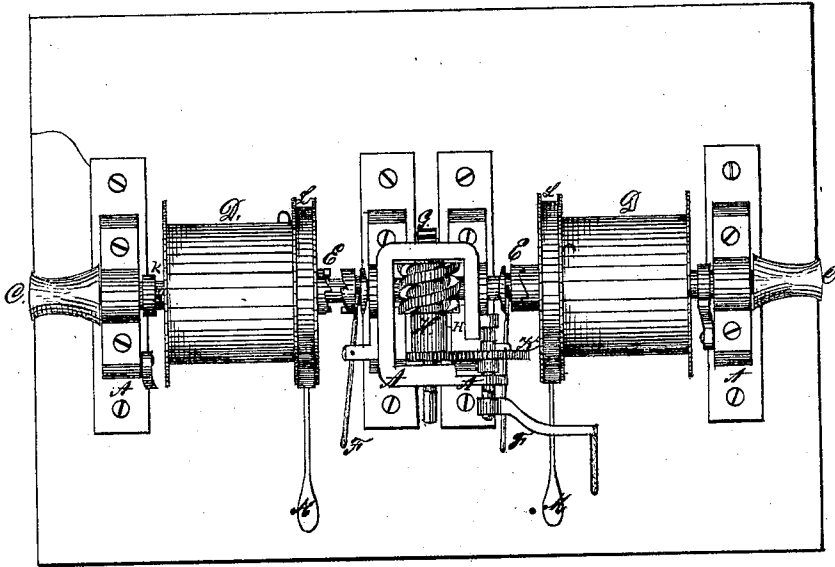


Fig. 1

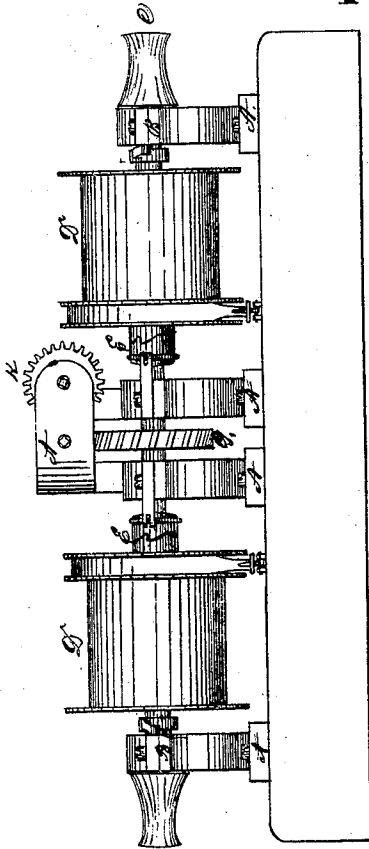


Fig. 2

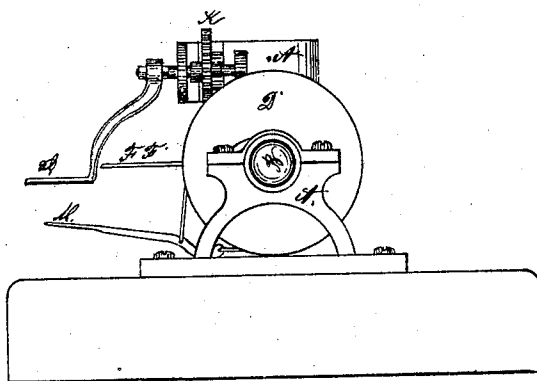


Fig. 3

Witnesses

Wm Rogers
Inventor.
Ans D. Claus
Frank Norcross

UNITED STATES PATENT OFFICE.

WILLIAM ROGERS, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF HIS
RIGHT TO ALEXANDER CHARTERS, OF SAME PLACE.

IMPROVEMENT IN WINDLASSES.

Specification forming part of Letters Patent No. 124,087, dated February 27, 1872; antedated February 17, 1872.

I, WILLIAM ROGERS, of Cleveland, in the county of Cuyahoga, in the State of Ohio, have invented a certain Windlass, of which the following is a specification:

The first part of my invention relates to the combination of the drums and heads of a windlass in such a manner that either of them can be used independent and also together, as the case may require it, in setting or in reefing sail aboard of a vessel. The second part of my invention relates to the application of certain gearing to the main shaft in such a manner that one man's strength would produce the same effect as four or six men with the old apparatus now in use.

Figure 1 is a plan embodying my invention; Fig. 2, side elevation of the same. Fig. 3 is an end elevation.

A A A A is the frame of the machine, which supports shaft B. C C are heads fastened on the end of shaft B. D D' are drums loose on shaft B. Drums D D' will revolve with shaft B, as the case may require it, when clutches E E are thrown in by means of forked levers F F. A spiral gear, G, fast upon the shaft B, gears into a worm-wheel, H, which is supported by a spindle running in boxes of frame A

A A A. A crank applied to spindle of worm-wheels A will turn the whole machine. The worm-wheel H is made one-half of the diameter of the drums D D', so that two revolutions of the crank I will turn the drums D D' once around. A gear, K, is attached, gearing into small gear on spindle of worm-gear H, by means of which the speed of the drums or heads can be increased to any desired amount by making the gear K larger or smaller. The band-brakes L L upon the flanges of drums D D' are used in lowering sails. The sail can be brought down at once by raising the foot from levers M M, and throwing out clutches E E; or, by retaining some pressure on the brake, sails can be made to lower slowly or stopped at any point.

I claim as my invention—

The combination of the worm H and worm-wheel G with shaft B, clutches E E, drums D D', and heads C C, substantially in the manner and for the purpose specified.

WM. ROGERS.

Witnesses:

JNO. J. CLAUSE,
FRANK NORCROSS.