

No. 46,811.

PATENTED MAR. 14, 1865.

W. C. MCGILL,
WINDLASS.

Fig. 1.

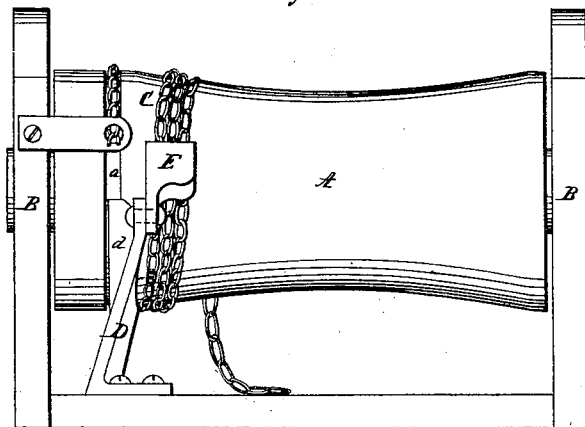
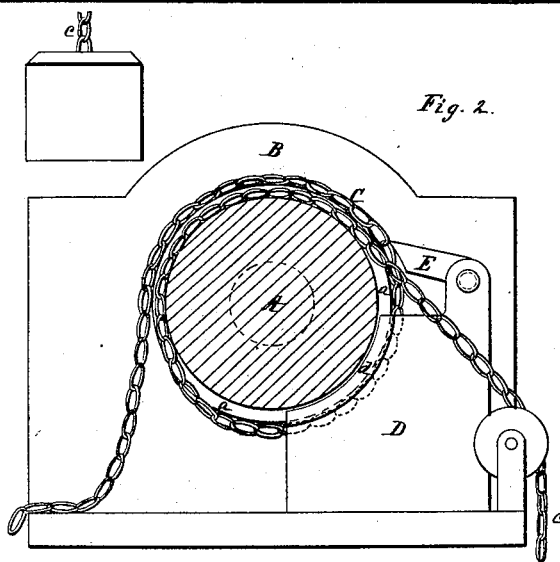


Fig. 2.



Witnesses:
James H. Leaman
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UNITED STATES PATENT OFFICE.

WILLIAM C. MCGILL, OF CINCINNATI, OHIO.

IMPROVED WINDLASS.

Specification forming part of Letters Patent No. 46,811, dated March 14, 1865.

To all whom it may concern:

Be it known that I, WILLIAM C. MCGILL, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Windlasses; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to devices for the prevention of fouling and slipping of windlass-cables.

Figure 1 is a rear elevation of a windlass embodying my improvement. Fig. 2 is a transverse section of the same.

A represents the drum or barrel of an ordinary windlass, journaled in suitable housings; B. The drum A is grooved circumferentially at *a*, to retain in position the first coil of the chain or cable or hawsers C, which is to be wound around the barrel a sufficient number of turns to secure the requisite friction.

C represents that end of the cable from which the anchor or other object is suspended, and whose weight tends to draw the cable tightly around the barrel.

In the act of weighing anchor or hoisting any other heavy weight the cable on the ordinary windlass is well known to be extremely liable to "foul,"—that is to say, one coil of the cable is liable to lap or ride over another so as to interrupt the action of the windlass.

It is to cure this defect that the leading feature of my improvement has been devised. This feature consists in the provision of a plate, D, called by me the "divider." The plate D is firmly attached to the deck or other stationary object, from which it extends

obliquely upward, as shown. The plate D has a concave edge, *d*, formed to enter and snugly fit the groove *a* without quite touching the drum. The plate D acts to ease the second coil away from the first and to prevent fouling. The groove *a* acts in co-operation with the divider D to hold the first coil to its place and to keep the first and second coils separate.

The groove *a* constitutes the second material feature of my invention.

The third part of my invention consists in the provision of a check-pawl, E, which is so hinged to the divider D as for its point to engage in the links of one or more of the secondary set of coils, and to catch or hold fast the cable automatically at any point desired.

The effect of the above provisions is to prevent sudden slipping of the cable, either around or along the barrel, and thereby to prevent the customary injurious surging and straining and the loss of power and motion incident thereto.

I claim herein as new and of my invention and desire to secure by Letters Patent—

1. The divider D *d*, formed and adapted to operate substantially as set forth.

2. In the described combination, the grooved drum or barrel A *a* and divider D *d*, as and for the purposes specified.

3. The combination of the divider D *d* and check-pawl E, substantially as set forth.

In testimony of which invention I hereunto set my hand.

W. C. MCGILL.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.