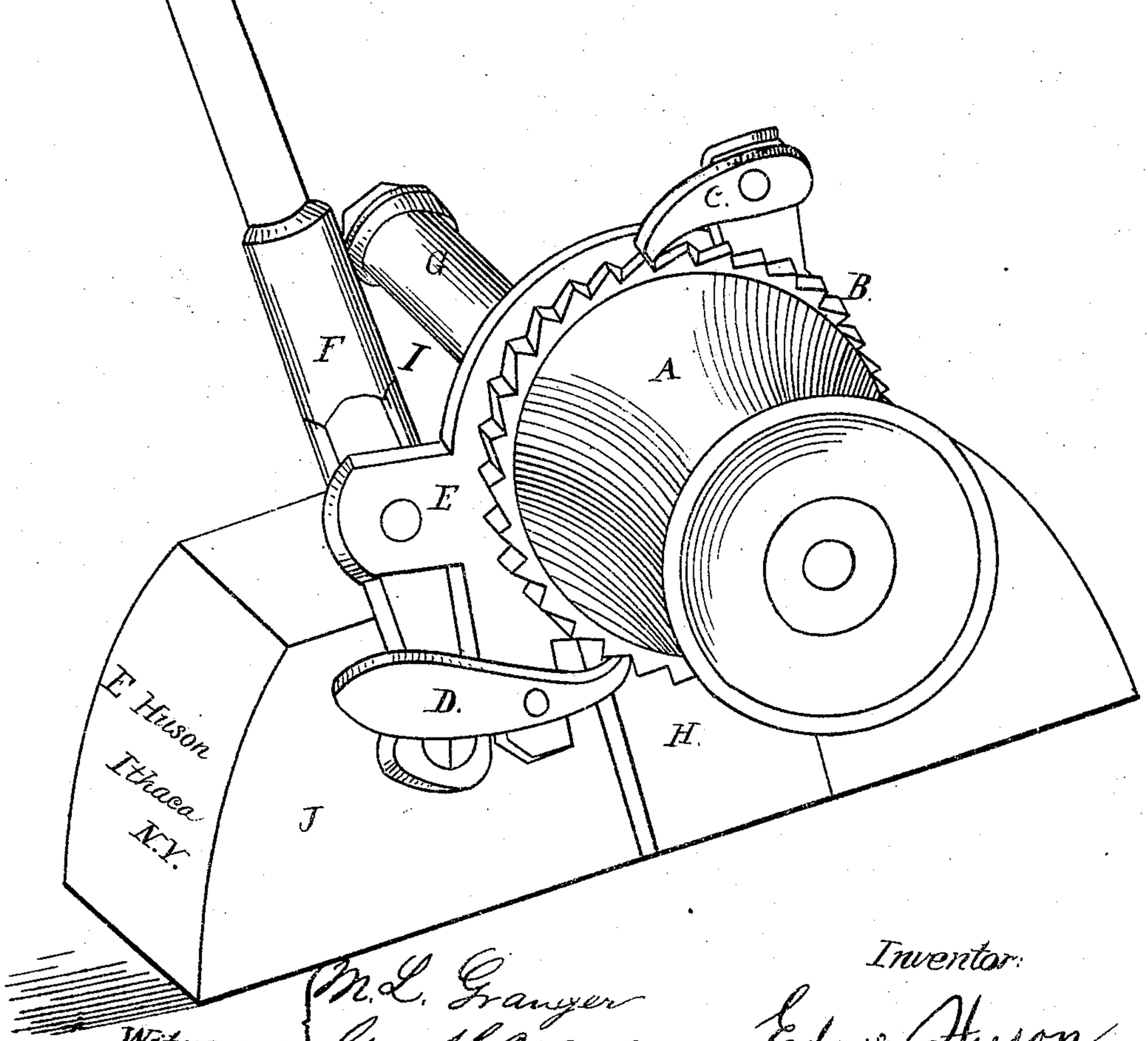
Sheet 1. 2 Sheets.

E. Huson.

Windlass for Boats.

No. 71762 Patented Dec. 3, 1867

Fig. 1.



Witnesses: M. L. Granger
Geo H. Whaley

Inventor:
Edgar Huson.

Sheet 2. 2 Sheets.

E. Huson.

Windlass for Boats.

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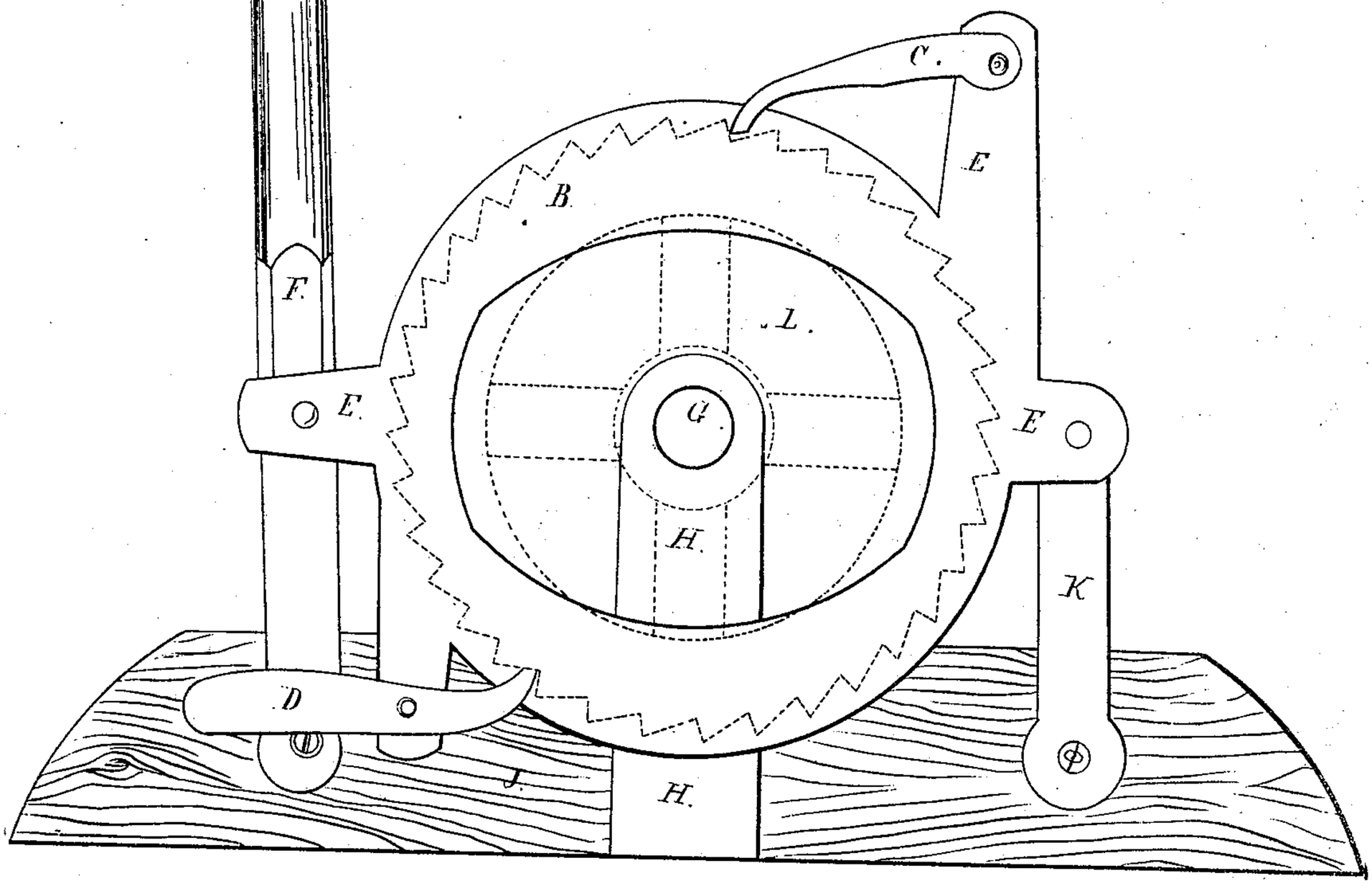
Fig. 2.



Witnesses:

M L. Granger
Geo H. Whaley

Inventor:

Edgar Huson

United States Patent Office.

EDGAR HUSON, OF ITHACA, NEW YORK.

Letters Patent No. 71,762, *dated December* 3, 1867.

IMPROVED WINDLASS FOR BOATS.

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, EDGAR HUSON, of Ithaca, Tompkins county, New York, have invented an Improved Boat-Windlass; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and the letters thereon.

My object is to make a boat-windlass especially adapted to the use of canal-boats, where a comparatively light and rapid motion is desirable. For this purpose I use a device that is composed of several parts, and so acts as to give a continuous forward motion to the cable, rope, or chain by which the boat is held or moved.

This device consists of a peculiarly-shaped plate or piece of metal, supported on two standards, which are so hinged that they have an oscillating motion while supporting the plate; and to the plate are attached two clicks or dogs, which are so weighted or fitted with springs as to be in constant action against the teeth of a cog or ratchet-wheel, and which wheel is fast to or a part of a cylinder or necked drum or head, about which the cable, rope, or chain is wound. A lever, which, for compactness, is made a part of or adjustable to one of the standards, actuates the whole. Reference is had to the drawings, in which—

Figure 1 is a perspective view of my boat-windlass, and

Figure 2 a sectional view, showing the construction thereof.

In fig. 1, A is the head or necked drum of the windlass, and B is the cog or ratchet-wheel, and C the upper click attached to the slotted plate E, and D is the lower click or dog, also fast to the plate E, and G is the shaft of the windlass, the lever and other parts being also seen so far as visible externally.

In fig. 2, by the red lines B, the ratchet or cog-wheel is indicated, covering part of the peculiarly-shaped plate E E E, which plate has the clicks or dogs C and D bearing on the ratchet or cog-wheel. The plate is supported by and hinged to the vibratory or movable rods or standards K and F, the latter of which is also made as a lever to move the whole windlass. An aperture, L, in the plate, allows the plate to move about the shaft G. The several parts make a whole, which is attached to a bed-piece, J, or directly to the boat.

The action of the windlass is that when the lever F is drawn to the left hand, the click C pushes the ratchet and makes the windlass move, while the click D is retracting; and when the lever F is moved to the right hand, the click D causes motion of the windlass, as the click C is retracting, and thus the head or drum rotates in one and the same direction at each backward and forward motion of the lever, and draws in the rope, cable, or chain.

The other parts and uses of my invention are apparent to those skilled in the art to which it appertains.

Claim.

1. I claim making a boat-windlass by the use of the slotted plate E about the shaft G, supported on the vibratory standards K and F, and having the clicks C and D, which act in the described manner on the ratchet or cog-wheel B, and head A, thus producing by both the forward and backward motions of the lever, one and the same motion of the rope, cable, or chain, as described.

2. I claim the combined whole, made as figured and described, for the purpose of a convenient and useful windlass for boats and other similar craft, as described.

EDGAR HUSON.

Witnesses:

T. L. PHILOS,

G. H. WHALEY.