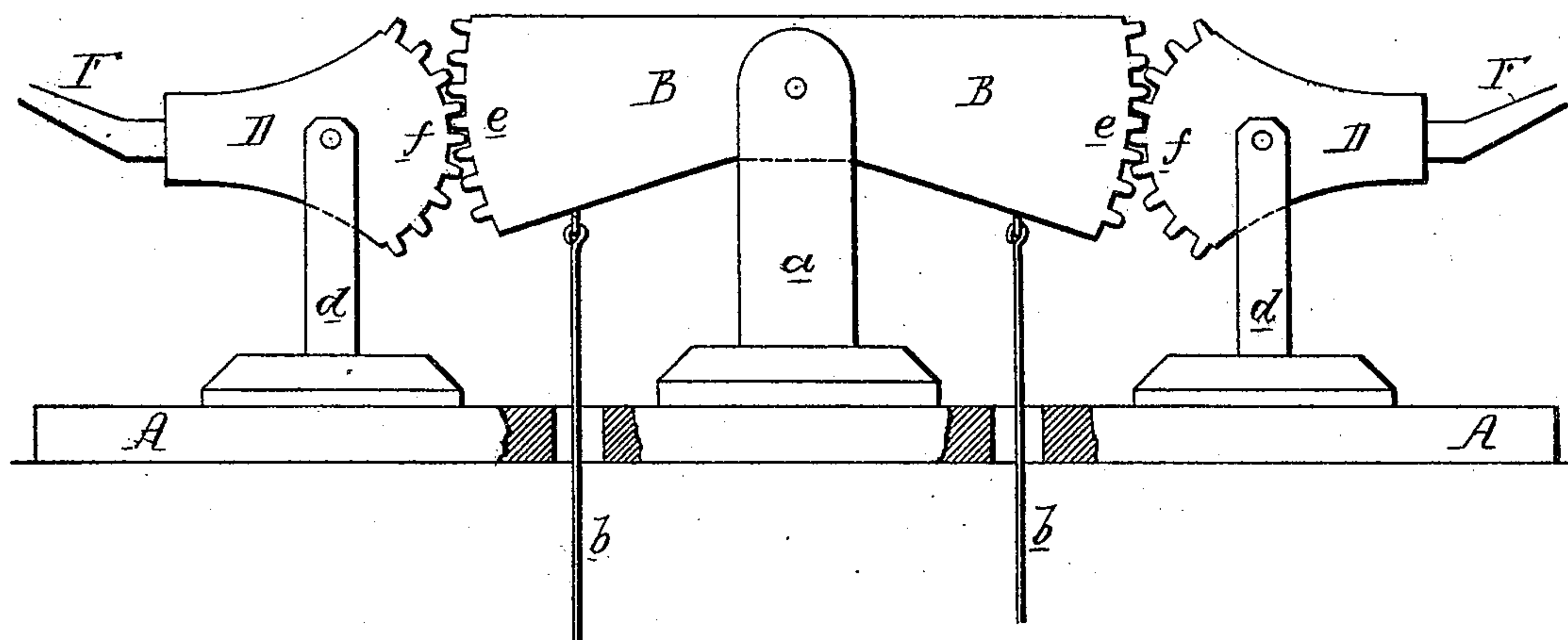


J. H. WEAVER.

WINDLASS-OPERATING MECHANISM.

No. 175,798.

Patented April 4, 1876.



Witnesses
Harry Howson Jr
Harry Smith

Jacob H. Weaver
by his Attorneys
Howson and son

UNITED STATES PATENT OFFICE.

JACOB H. WEAVER, OF MAURICETOWN, NEW JERSEY.

IMPROVEMENT IN WINDLASS-OPERATING MECHANISMS.

Specification forming part of Letters Patent No. **175,798**, dated April 4, 1876; application filed March 9, 1876.

To all whom it may concern:

Be it known that I, JACOB H. WEAVER, of Mauricetown, Cumberland county, New Jersey, have invented a certain Improved Windlass-Operating Mechanism, of which the following is a specification:

The object of my invention is to construct a compact and powerful device for operating windlasses, and this object I attain in the manner which I will now proceed to describe, reference being had to the figure in the accompanying drawing, in which A represents the forecastle deck-planks of a vessel, beneath which is the usual windlass, and to which is secured my mechanism for operating the same.

To a standard, *a*, secured to the deck, is hung the lever B, from the arms of which extend two rods or chains, *b b*, the latter passing through openings in the deck and being attached at their lower ends to the usual ratchet mechanism on the windlass.

Each end of the pivoted lever B consists of a toothed segment, *e*, into which gears a similar segment, *f*, forming one arm of a lever, D, which is pivoted to a standard, *d*, secured to the deck, the opposite arm of each lever D consisting of a socket for the reception of the end of an operating bar, F. As this bar is vibrated the power is transmitted through the lever D

to the lever B, and from the latter through the rods *b* to the shaft of the windlass.

Windlass-operating mechanism has heretofore been constructed in which the power was applied to a lever, B, by means of bars connected to the ends of the lever and hung to a vibrating pivot in order to allow it to accommodate itself to the sweep of the lever; but this plan is objectionable on account of the extended space which the mechanism occupies, its liability to get out of order, and the difficulty of properly applying power to the lever through the medium of a bar hung to a yielding pivot, objections which I overcome by the compact and direct-acting device which I have shown and described.

I claim as my invention—

The combination described of the pivoted lever B, connected to the windlass mechanism, and having at each end a toothed segment, *e*, with the levers D D and their toothed segments *f*.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses.

JACOB H. WEAVER.

Witnesses:

HARRY HOWSON, Jr.,
HARRY SMITH.