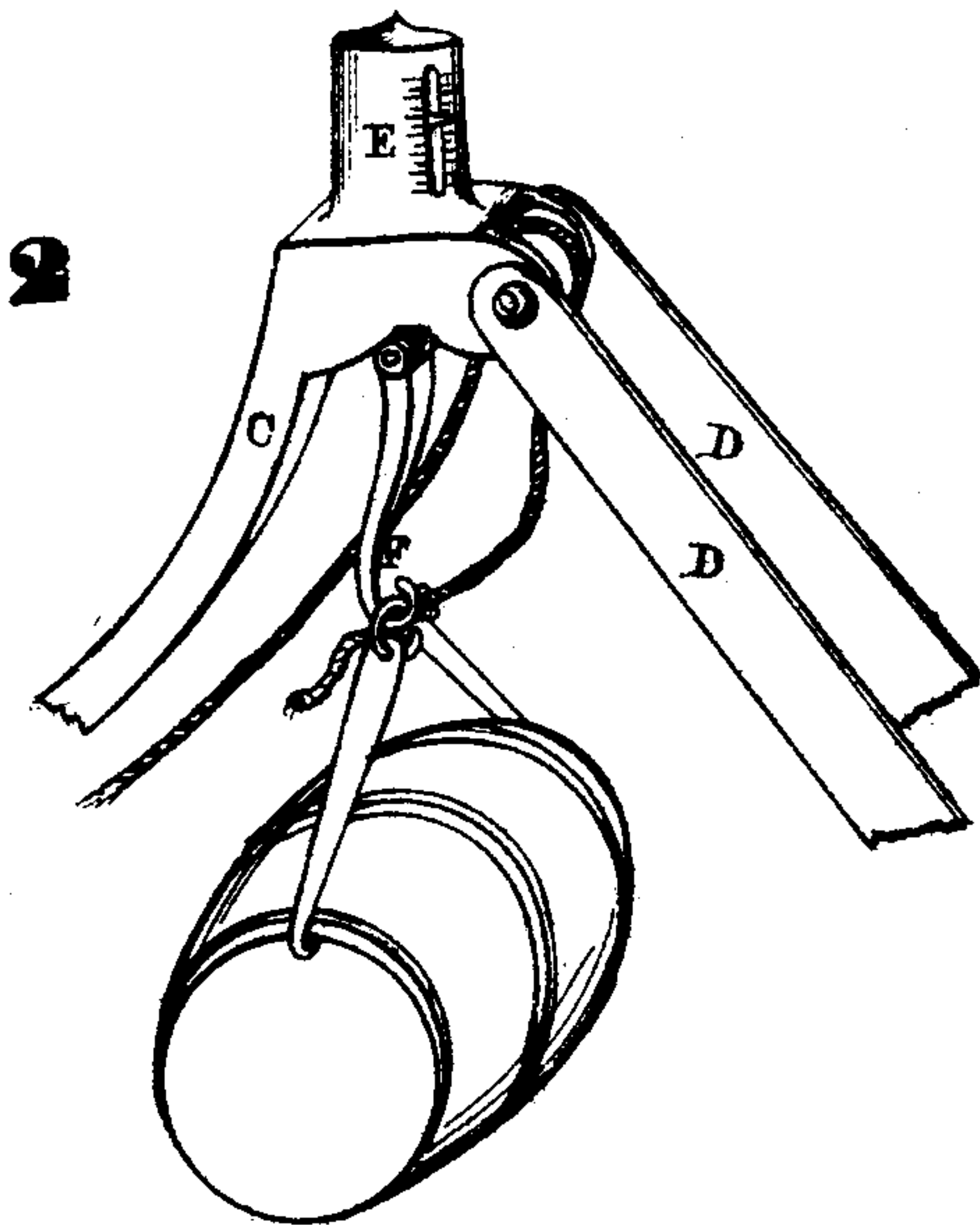
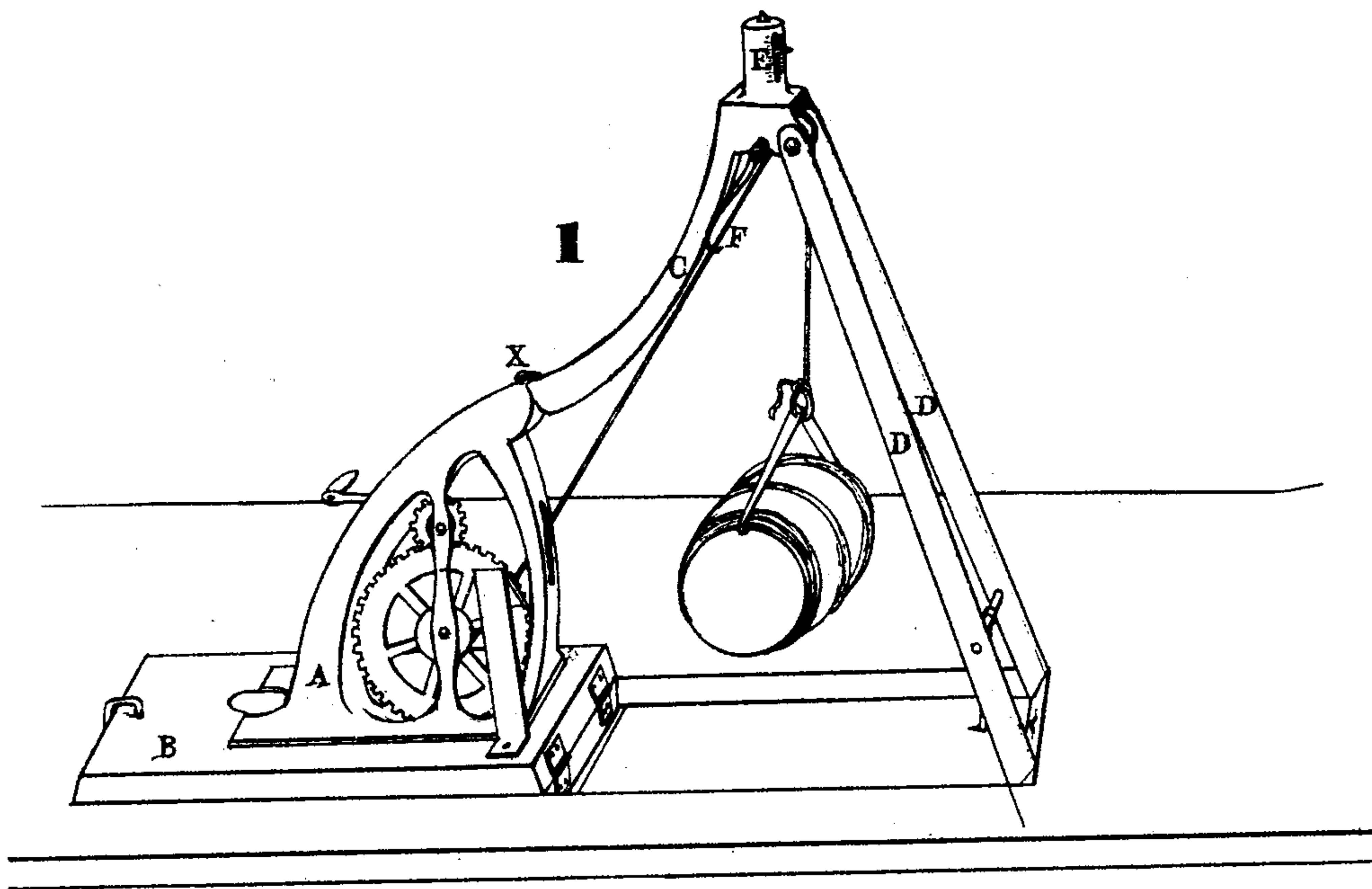


R.A. & W. Kendall, 2. Sheets, Sheet 1.

Elevator.

No. 102,274.

Patented Apr. 26. 1870.



Witnesses:

Abraham Meyer
Thomas Kendall

Inventors:

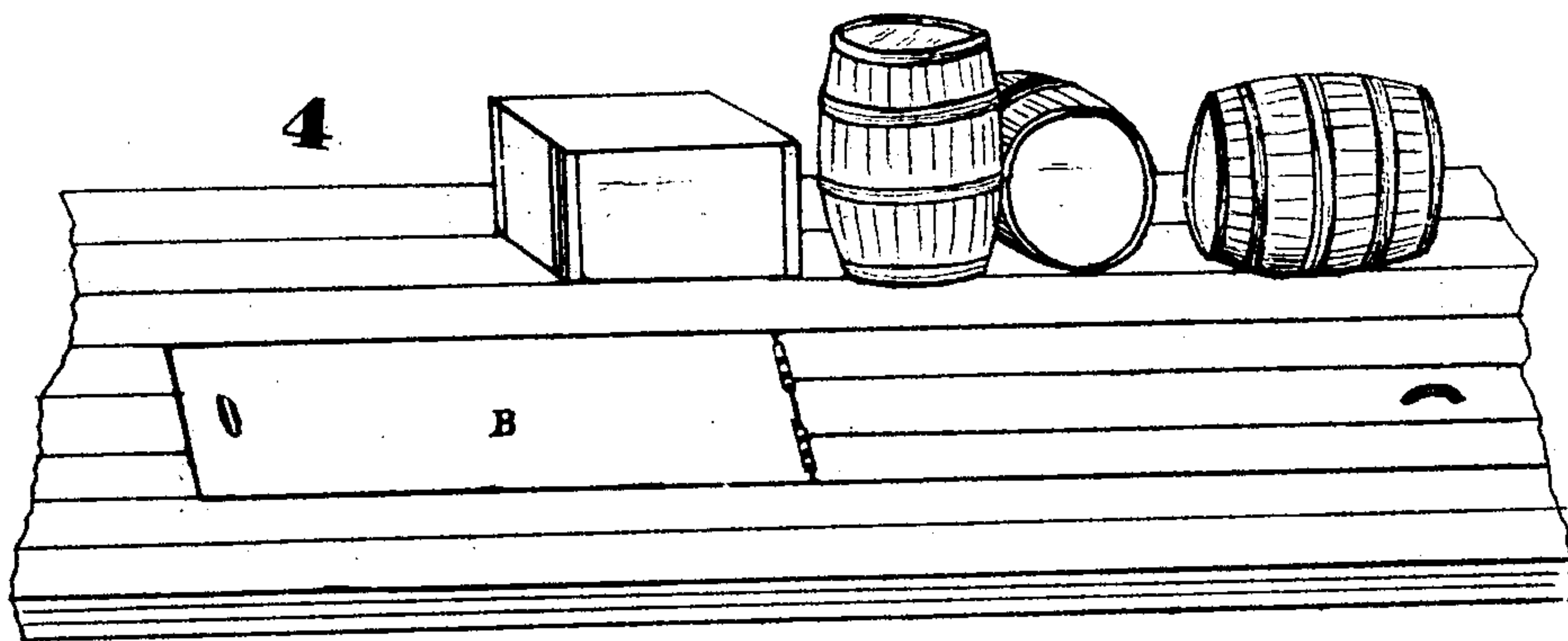
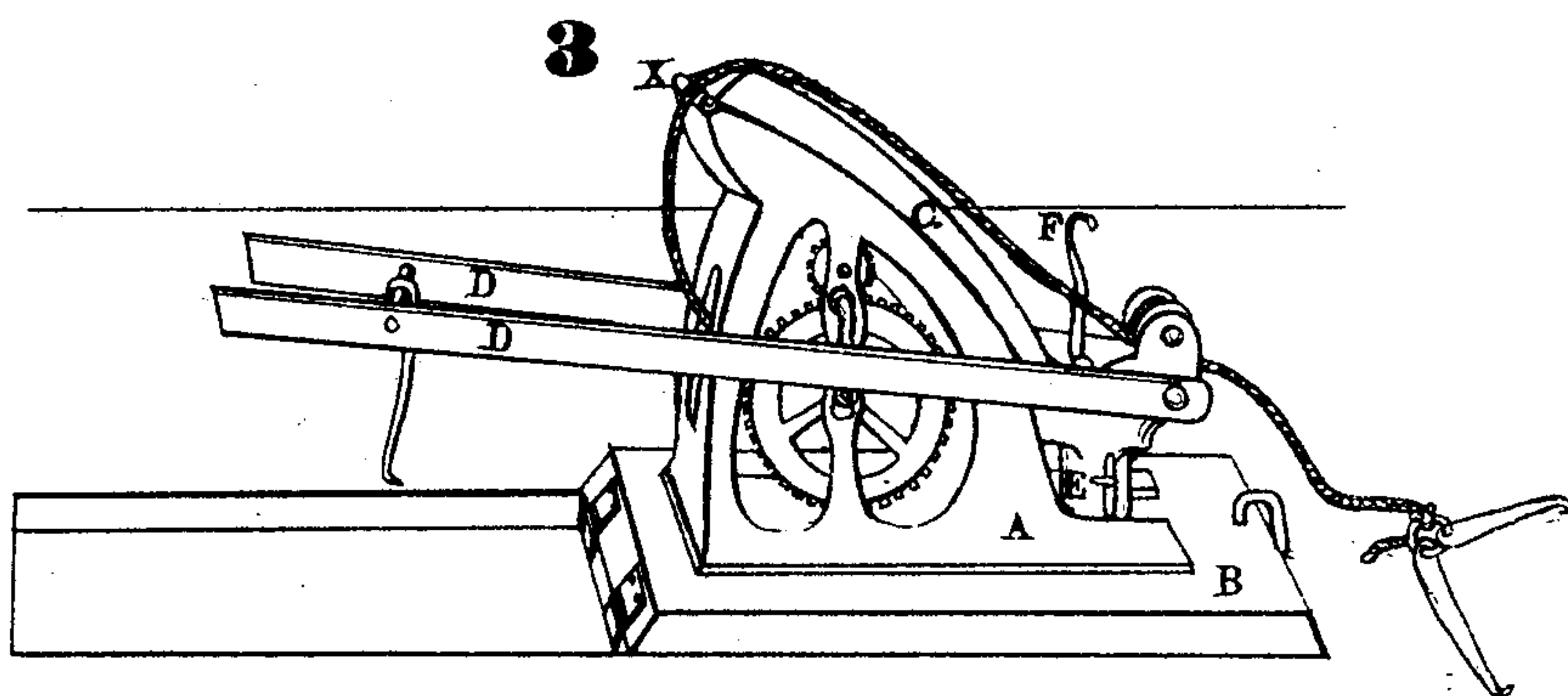
Richard A. Kendall
William Kendall

R. A. & W. Kendall, *2. Sheets, Sheet 2.*

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Witnesses:

Abraham Meyer
Thomas Kendall

Inventors:

Richard A. Kendall
William Kendall

United States Patent Office.

RICHARD A. KENDALL AND WILLIAM KENDALL, OF MINERAL POINT,
WISCONSIN.

Letters Patent No. 102,274, dated April 26, 1870.

IMPROVEMENT IN HOISTING-MACHINE.

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

We, RICHARD A. KENDALL and WILLIAM KENDALL, of Mineral Point, in the county of Iowa and State of Wisconsin, have invented Improvements in Hoisting-Machinery, of which the following is a specification.

Nature and Object of the Invention.

The first part of our invention relates to the combination of hoisting-frame and gear with floor-doors in such a manner that the said floor-door carries with it the entire machine, thus affording a firm base to rest on when open, and also securely placing the same out of the way when closed.

The second part of our invention relates to the folding property of the machine itself, whereby it is rendered compact for putting away, or opened out for use.

The third part of our invention relates to the combination of the aforesaid floor-door and folding hoisting-machine with weighing-scale, placed near the top of the folding arm, in such a manner that it can be used or not in connection with hoisting, all as herein-after more fully specified.

Figure 1 represents the door opened and the machine also opened out for operation.

Figure 2 represents the weighing-attachment, also in operation.

Figure 3 represents the machine folded, the door open.

Figure 4 represents the door closed and the machine put away.

A is the frame of the machine, which frame should be substantially constructed and securely bolted to the under side of the door.

B is the door.

C is the folding arm, hinged to the frame at X.

D D are movable leg-supports, the upper ends of which are pivoted to the folding arm, the lower ends resting on the sleeper or frame-work of the floor.

The relative positions of the folding arms and leg-supports are seen as open at fig. 1, and folded at fig. 3.

E represents the weighing-attachment in the form of the spring-balance.

F is the hook which is fastened to the main rod of the scale by a hinged joint, for the purpose of ready adjustment to the ring supporting the articles to be weighed.

When it is not desirable to use the weighing-scale the hook can be turned out of the way.

We do not claim the cog-wheel gear for hoisting-purposes. We do not claim the invention of the spring-balance or any improvement thereon.

We claim in our invention as new and desire to secure by Letters Patent—

1. The combination with floor-doors of the severally herein specified portions of the hoisting-machine, substantially as and for the purpose set forth.

2. The folding property, as herein specified and for the purpose set forth.

3. The herein specified hoisting-machine, combined with weighing-scale and the manner of adjusting the same, substantially as and for the purpose set forth.

4. The severally herein claimed and specified devices, whether used separately or in combination.

The above specification of our invention signed by us this 19th day of January, 1870.

RICHARD A. KENDALL.
WILLIAM KENDALL.

Witnesses:

WILLIAM JENKIN RICHARDS,
THOMAS KENDALL.