J. F. WOLFRUM.

HOISTING APPARATUS.

No. 185,414. Patented Dec. 19, 1876.

Fig: 1.

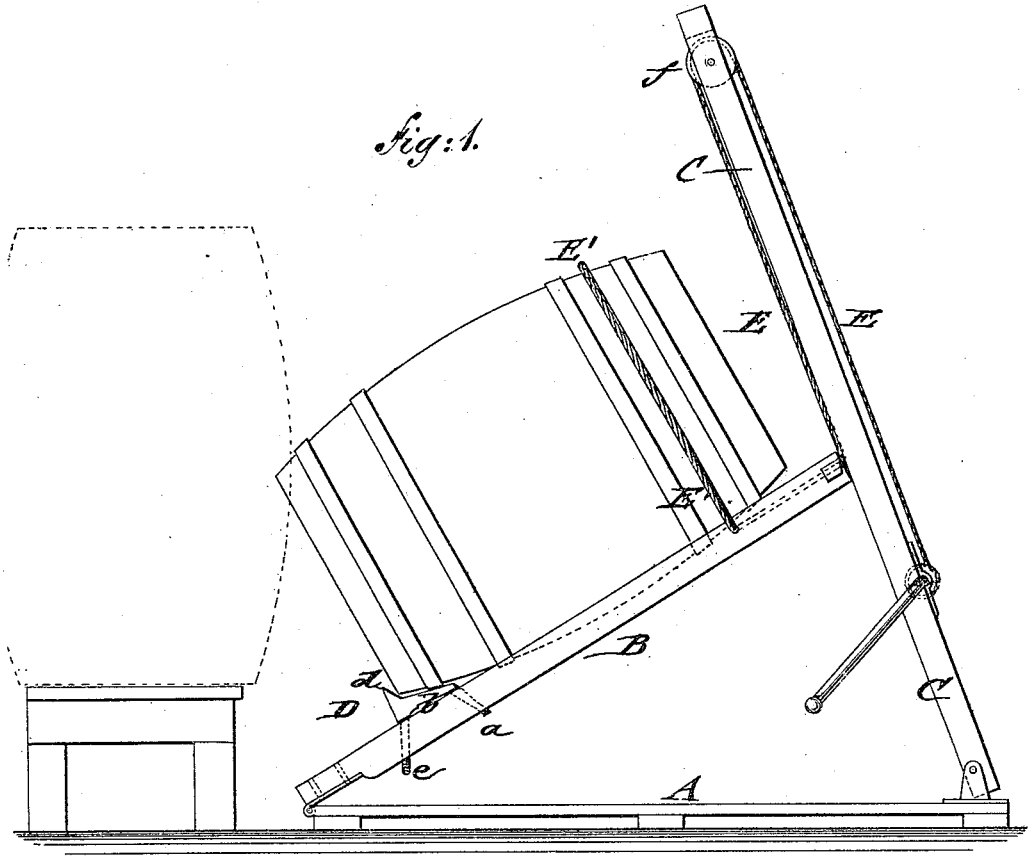
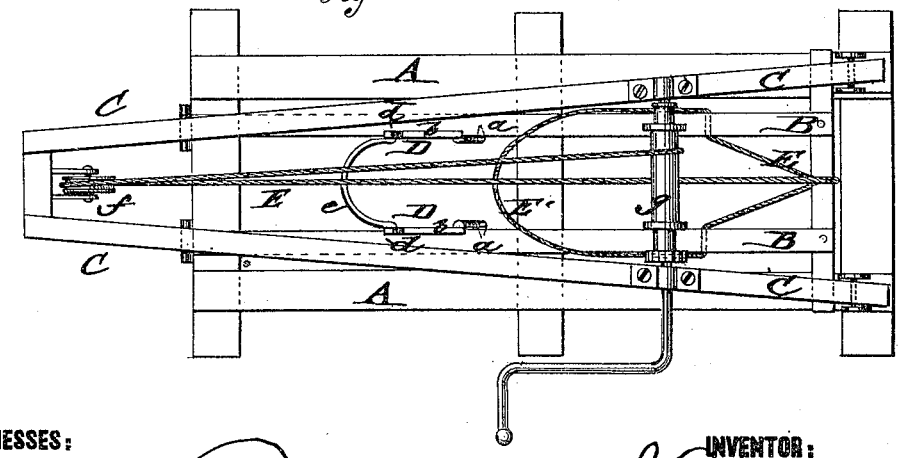


Fig: 2.



WITNESSES:

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JOHN F. WOLFRUM, OF DEFIANCE, OHIO.

IMPROVEMENT IN HOISTING APPARATUS.

Specification forming part of Letters Patent No. **185,414**, dated December 19, 1876; application filed June 6, 1876.

To all whom it may concern:

Be it known that I, JOHN F. WOLFRUM, of Defiance, in the county of Defiance and State of Ohio, have invented a new and Improved Hoisting Apparatus, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved hoisting apparatus, and Fig. 2 a top view of the same folded up.

Similar letters of reference indicate corresponding parts.

The invention relates to an improved apparatus for hoisting heavy barrels or other packages from a horizontal to a vertical position onto a supporting-frame or higher object, the apparatus being worked with great facility by one person, and folded up after use.

The invention consists of a barrel-hoisting apparatus, made of a base-section, a hinged barrel-supporting section with movable yoke, and of a hinged section with winding crank-roller and hoisting-rope, attached to middle section and to barrel.

In the drawing, A represents the base-frame of my apparatus, to which is hinged, at one end, the barrel-carrying frame B, and at the other end the hoisting-frame C, both sections or frames folding down on the base-frame to take up a small space therewith after use. The hinged barrel-carrying section B has a sliding yoke, D, which bears, by side spurs *a*, on the under side of frame B, so as to bite by the pressure of the barrel resting against the yoke into the frame, and support the barrel by the friction exerted on the frame.

When the frame is made of iron, cams or teeth have to be arranged at the under side for the catching of the spurs; or toothed plates may also be applied to a wooden frame, if desired, to protect it against wear. These teeth have to be provided for a certain length, corresponding to the extreme height to which the barrel or package has to be lifted, which is determined by the article to be hoisted and the height of the platform. The yoke D bears by side strips *b*, resting on the top of frame B, and has upward-projecting end-bearings *d*, against which the barrel rests. A curved lateral brace part, *e*, of the yoke imparts the required strength to the same to support the barrel or other package. The barrel is rolled into position onto the frame B, with the faucet sidewise near the frame, and at a distance from the end of the frame B equal to the height of the platform or support on which it is to be hoisted. The yoke is then moved against the lower part of the barrel, the hoisting-frame C being placed in upright position before the barrel is rolled on. A rope, E, of the hoisting-frame C passes through the lateral end piece of frame, and through side perforations or guides of the same at some distance from the end of the frame, so as to form a loop, E′, that may be carried around the barrel, as shown in Fig. 1. The rope E passes over a pulley, *f*, at the top part of frame C, and then down to a windlass-roller, *g*, on which it is wound upon turning the crank of the same.

By steadying the hoisting-frame with the hands, so that it bears lightly against the end of frame B, and turning the crank with the other hand, the barrel-carrying frame is slowly raised until brought to a certain height, when it will tip forward by the weight of the barrel toward the platform, and finally, by slackening the rope, seat the barrel on the same. The barrel is then turned, by rope and hand-lever or other suitable device, on the platform until the faucet is at the front part of the same, the barrel being thus placed by one person, in easy and quick manner, in position without any trouble, and forming thereby a very useful device for grocery, liquor, and other stores or warerooms.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A hoisting apparatus composed of a base-frame with a barrel-carrying frame hinged to one end, and a hoisting-frame, rope, and windlass-roller at the other end, the whole arranged and operated substantially as and for the purpose set forth.

2. The combination of the barrel-carrying frame, having sliding yoke-support or friction-bearing, with the barrel-holding loop end of rope of hoisting-frame, substantially as shown and described.

JOHN FREDK. WOLFRUM.

Witnesses:

E. SAEGER,

LEWIS E. HERRING.