

No. 692,434.

Patented Feb. 4, 1902.

J. ELLIOTT.
TILTING HOLDER FOR BARRELS.

(Application filed June 3, 1901.)

(No Model.)

2 Sheets—Sheet 1.

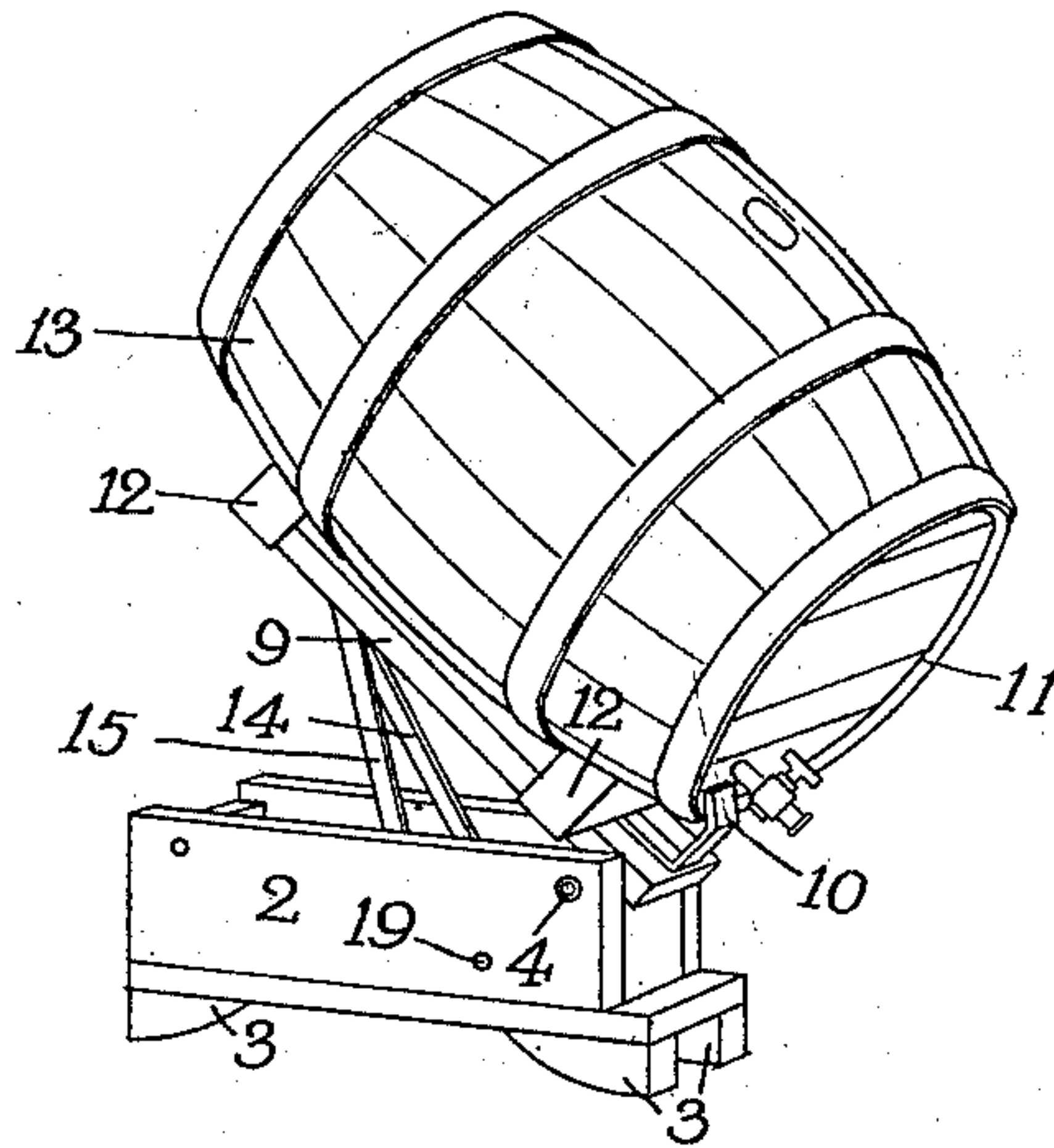


FIG. I.

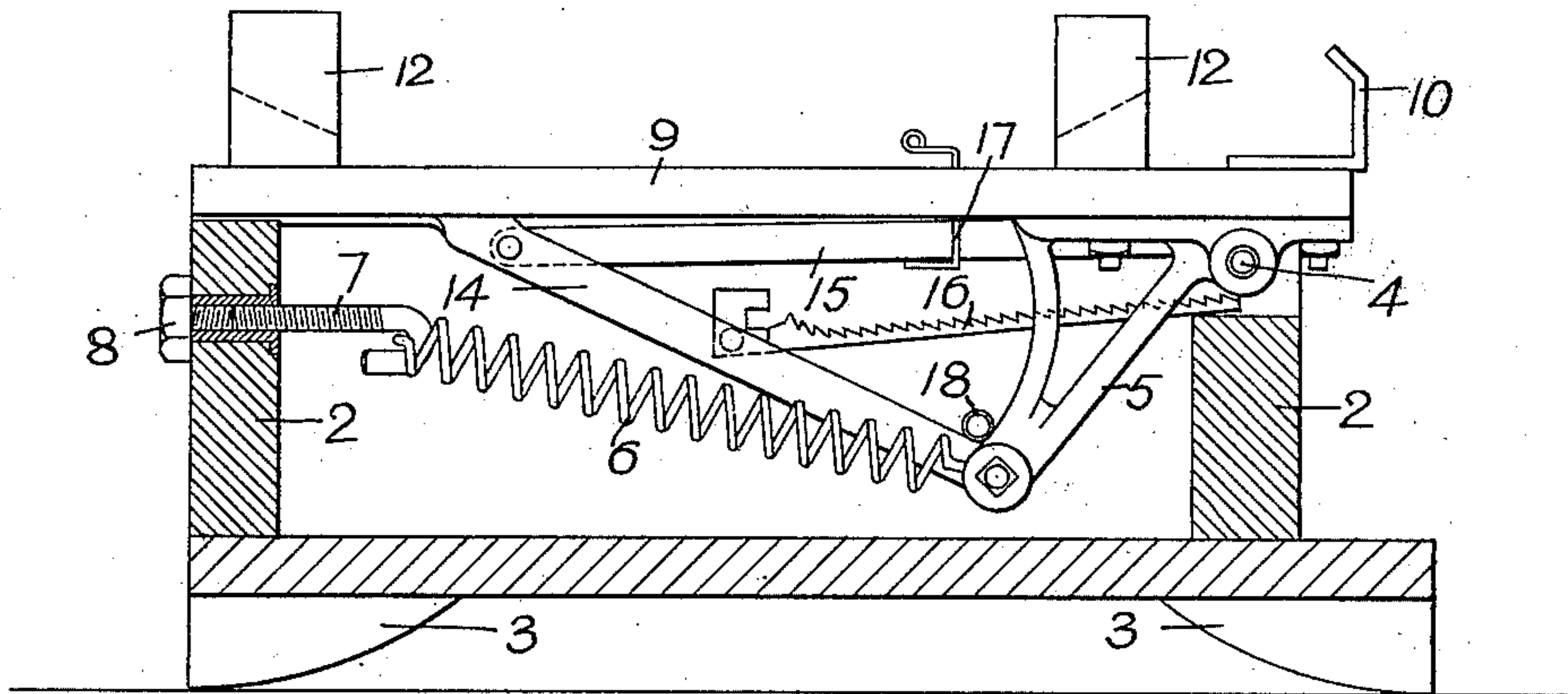


FIG. II.

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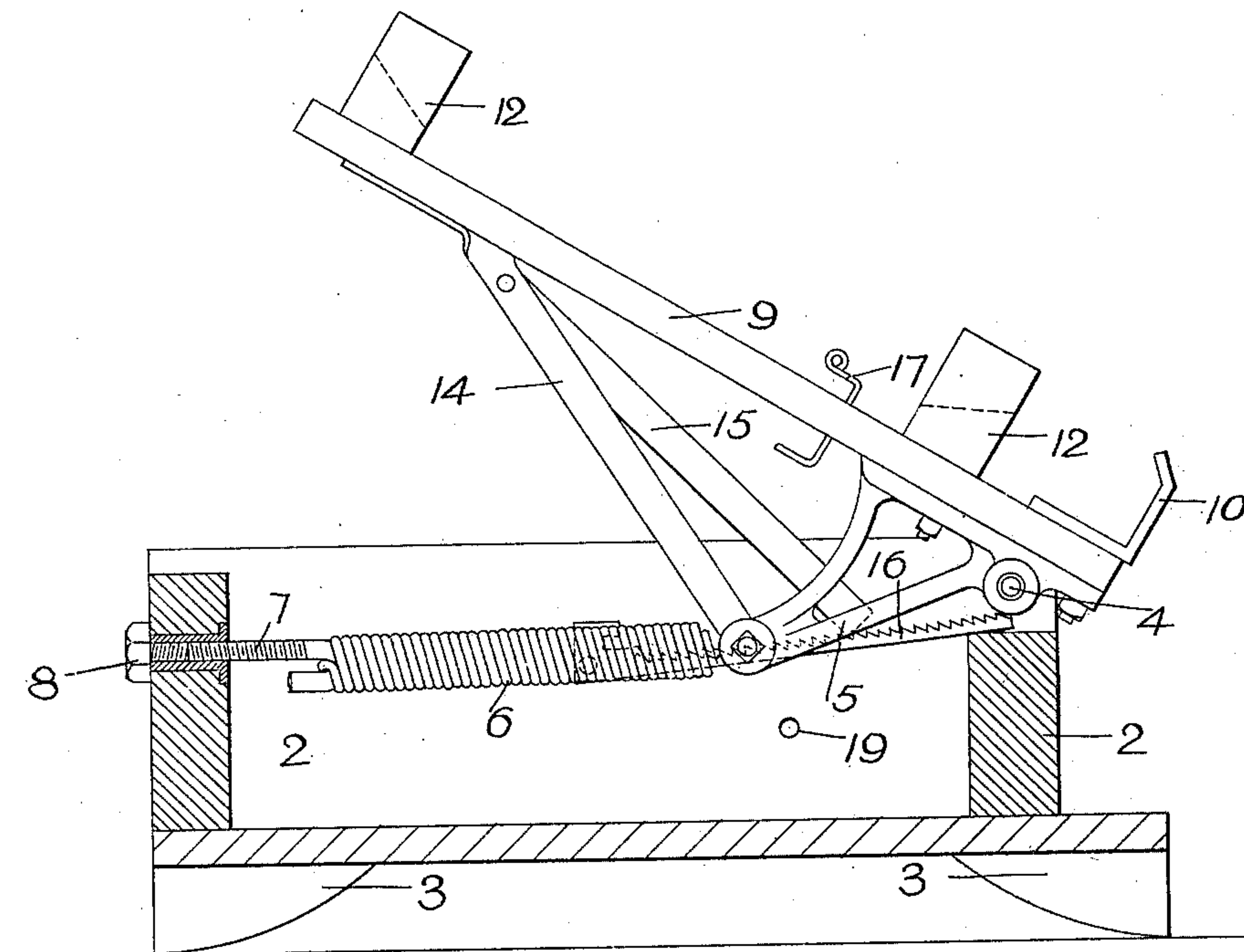


FIG. III.

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UNITED STATES PATENT OFFICE.

JAMES ELLIOTT, OF COVENTRY, ENGLAND.

TILTING HOLDER FOR BARRELS.

SPECIFICATION forming part of Letters Patent No. 692,434, dated February 4, 1902.

Application filed June 3, 1901. Serial No. 62,976. (No model.)

To all whom it may concern:

Be it known that I, JAMES ELLIOTT, a subject of the King of Great Britain, residing at Coventry, in the county of Warwick, England, have invented a new and useful Tilting Holder for Barrels, of which the following is a specification.

My invention relates to tilting holders for barrels and the like, and has for its principal object to produce a portable holder provided with an automatic tilting device; and my invention consists, essentially, in a holder provided with a spring which gradually lifts the rear end of the barrel as the liquid is drawn off.

In the accompanying drawings, Figure I is a general view of the holder with a barrel tilted up thereon. Figs. II and III are side elevations, partly in section, showing the holder closed and open, respectively.

The same numerals indicate the same parts in all the figures.

In carrying out my invention I provide a rectangular frame 2, of wood or other suitable material, preferably mounted on four feet 3, as shown in Fig. I, though it may be mounted on rollers, if desired. Across the front part of the frame I provide a spindle 4, on which is mounted a bracket 5, preferably of approximately triangular form. The spindle passes through the front angle of the bracket, and the rear angle of the bracket is connected by one or more tension-springs 6 to the rear end of the frame, preferably by a screw 7, carrying a nut 8. By rotating the nut 8 the tension of the spring or springs 6 may be adjusted. For cheapness I prefer to employ a single spring. To the forward side of the triangle is fixed a plank 9. To the forward end of the said plank is secured a hook or stop 10, adapted to engage the front chime (edge) 11 of the barrel. Across the plank 9, at suitable distances apart, are secured, say, two bars 12, the upper surfaces of which are curved concavely to receive the barrel 13 and prevent the same rolling sidewise. A stay 14 is preferably provided between the rear angle of the bracket 5 and the free end of the plank 9, and to a suitable part of the plank 9 or the stay 14 is hinged a swinging rod 15, the lower end of which is adapted to engage with the teeth of a rack 16, secured in the frame 2. The rod may be held clear of the rack when required

by a wire hook 17 or other suitable device, which may be operated from the upper surface of the plank, as shown in Fig. II. Any suitable device may be employed for holding down the free end of the plank against the action of the spring or springs when required. In Fig. II, I have shown a long pin 18 passing through holes 19 in the sides of the frame and through the loop formed by the bracket 5 and stay 14.

In action the barrel 13 is placed in position on the cross-bars 12 with the front chime 11 engaging the hook 10, and the holding device, if any, is released. The spring 6 employed is of such a tension that as the liquid is drawn from the barrel the rear end of the said barrel is gradually raised. As the said rear end of the barrel rises practically as gradually as the liquid flows, no material disturbance of any sediment takes place. As the barrel 13 and plank 9 rise the swing-rod 15 works along the rack 16 and prevents the barrel being accidentally disturbed against the action of the spring or springs 6.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In a tilting holder for barrels, the combination of, a frame, a plank, a pivotal connection between the same frame and plank, means for retaining a barrel on the said plank, a spring adapted to gradually lift the free end of the said plank, and a screw connected to the said spring and the said frame, substantially as and for the purposes set forth.

2. In a tilting holder for barrels, the combination of a frame, a plank, a bracket fixed to the said plank, a spindle adapted to pivotally connect the said bracket to the said frame, a spring connected to the said bracket, a screw connected to the said spring and to the said frame, a stop and cross-bars on the said plank, a stay connecting the said bracket to the free end of the said plank, a rack fixed to the said frame, and a rod jointed to the said plank and adapted to engage in the said rack substantially as and for the purposes set forth.

3. In a tilting holder for barrels, the combination of a frame, a plank, a bracket fixed to the said plank, a spindle adapted to pivotally connect the said bracket to the said frame, a spring connected to the said bracket,

a screw connected to the said spring and to the said frame, a stop and cross-bars on the said plank, a stay connecting the said bracket to the free end of the said plank, a rack fixed
5 to the said frame, a rod jointed to the said plank and adapted to engage in the said rack, means for retaining the said jointed rod out of engagement with the said rack, holes in the said frame and means for holding down the
10 said plank against the action of the said

spring, substantially as and for the purposes set forth.

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

JAMES ELLIOTT.

Witnesses:

JOHN T. FAZAKARLEY,
THOS. F. WILSON.