

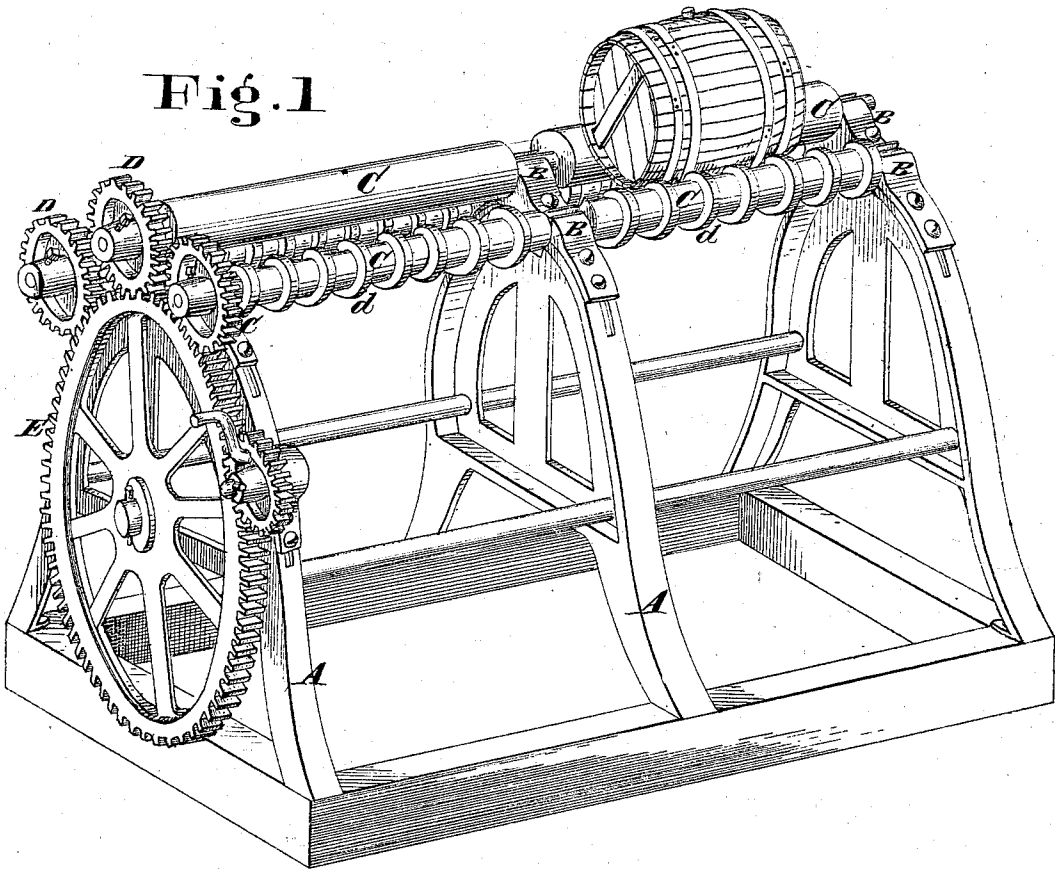
F. BRENNER.

Apparatus for Pitching Casks.

No. 137,173.

Patented March 25, 1873.

Fig. 1



Attest

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# UNITED STATES PATENT OFFICE.

FRIEDRICH BRENNER, OF CINCINNATI, OHIO.

## IMPROVEMENT IN APPARATUS FOR PITCHING CASKS.

Specification forming part of Letters Patent No. 137,173, dated March 25, 1873.

*To all whom it may concern:*

Be it known that I, FRIEDRICH BRENNER, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Machines for Pitching Beer-Casks, of which the following is a specification:

### *Nature and Objects of Invention.*

My invention relates to the class of machines which are designed to be used to rotate beer-casks while they are under the operation of "pitching" interiorly, and consists of a combination of devices by which the cask, after being supplied with the necessary amount of pitch, is not only rotated continuously, but is moved laterally with a rocking motion.

### *Description of the Accompanying Drawing.*

The accompanying drawing is a perspective view of a beer-pitching machine embodying my invention.

### *General Description.*

A is the frame of the machine, made in any preferred way, and provided with journal-bearings B B on both sides of the machine, for the reception of the rollers C. The rollers C, which may be made of any length, and supported at any number of points in its length, are loosely journaled in the bearings B, and forcibly rotated by gear-wheels D, connecting with or meshing into the driving-wheel E. I prefer, in the construction of this machine, to use three lines of rollers, as indicated by the three gear-wheels D, one line at the top of the machine, and one upon each side of the same. One or more of the rollers have screw-threads *d* upon their peripheries, as shown, which serve to carry the cask laterally in the opera-

tion of the machine. The roller or rollers on which there are no screw-threads may be plain faced. The cask to be pitched is placed between any two of the rollers C, by which it is rotated, as the machine is put in motion. The screw-thread *d*, as the cask is rotated, acts to carry it along laterally toward the side of the machine it is delivered upon, and in this double motion the cask is also tipped or rocked to and fro as the thread upon which it rests is moved to or from the center of gravity of the cask, and the pitch is by this treble motion distributed equally over the staves of the cask, the pitch, of course, as is necessary, being heated or melted before it is put in. The rollers may be two in number only, or as many more as desired.

I do not propose to claim broadly the combination of a series of revolving rollers, so constructed and arranged as to both roll and rock barrels placed upon any two of the series. The distinguishing feature of my invention is the screw-threads upon at least one of a pair of such rollers, to impart to the barrel or cask an endwise as well as a rotating and rocking motion.

### *Claim.*

A beer-cask pitching-machine, having revolving rollers C on which the cask rests, one or more of the rollers having a screw-thread or threads, *d*, the whole being arranged and operated substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

FRIEDRICH BRENNER.

Witnesses:

FRANK MILLWARD,  
J. L. WARTMANN.