

(No Model.)

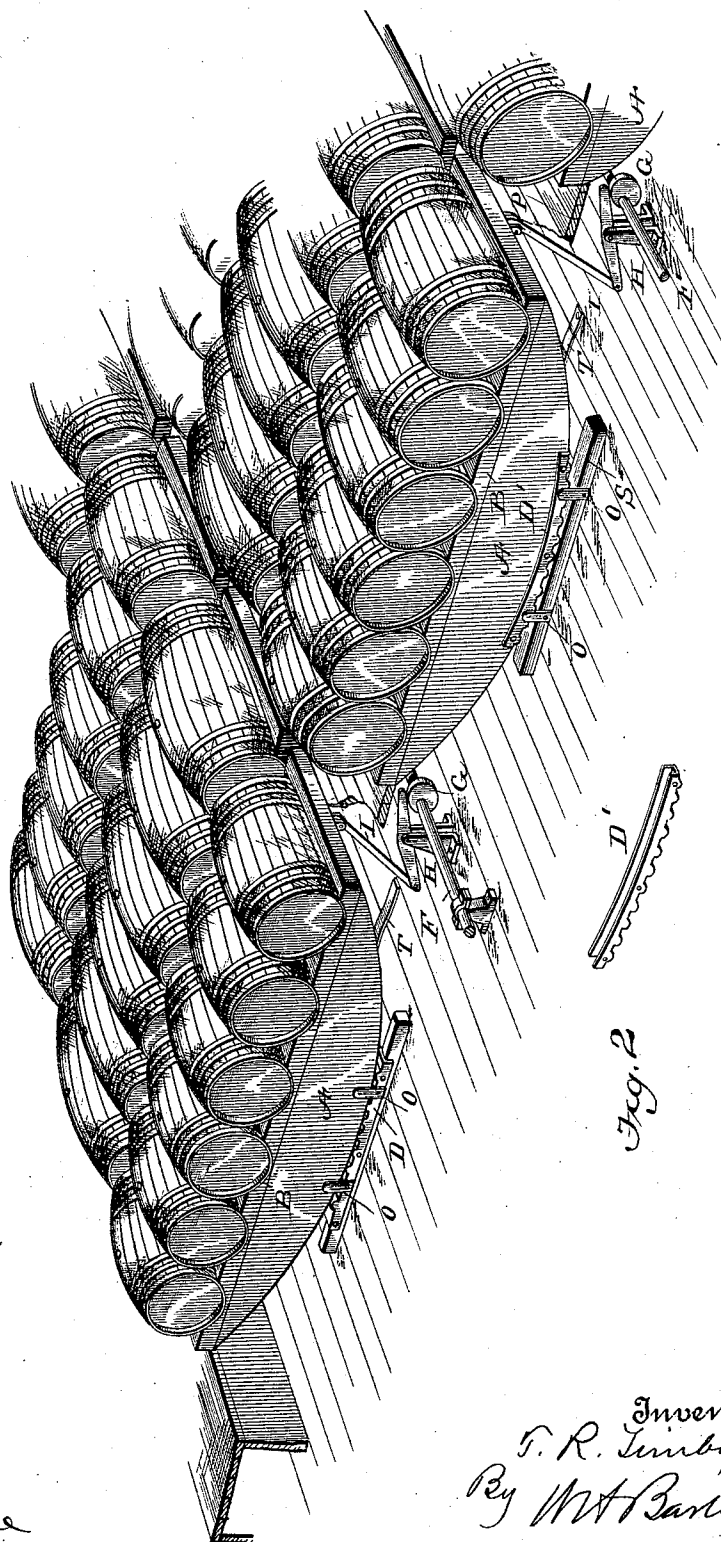
2 Sheets—Sheet 1.

T. R. TIMBY.

APPARATUS FOR AGING WINES OR DISTILLED LIQUORS.

No. 527,564.

Patented Oct. 16, 1894.



Witnesses

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Fig. 3.

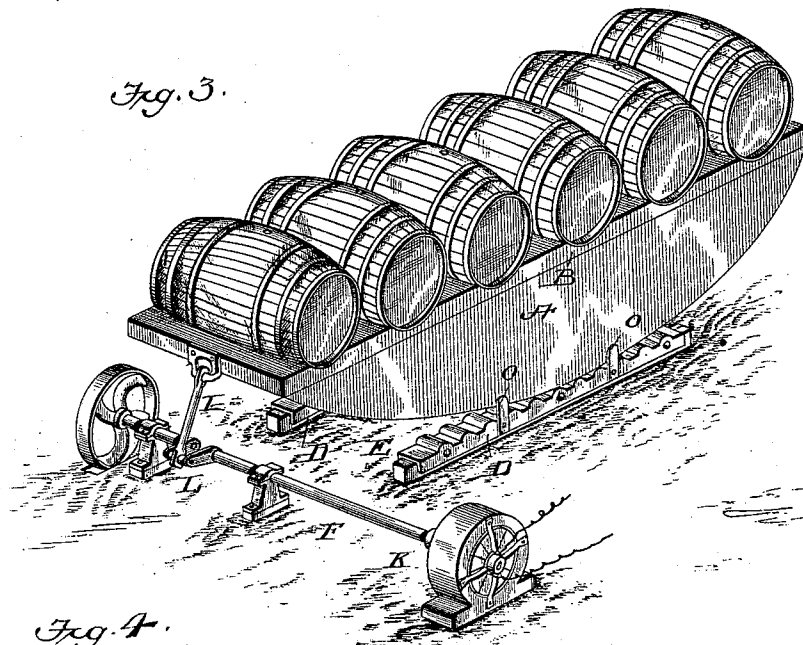


Fig. 4.

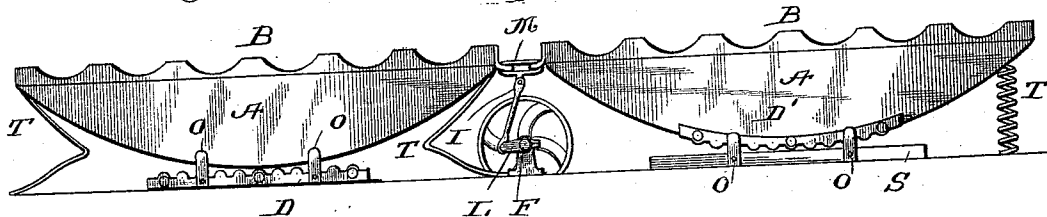


Fig. 5.

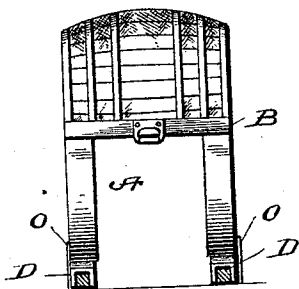
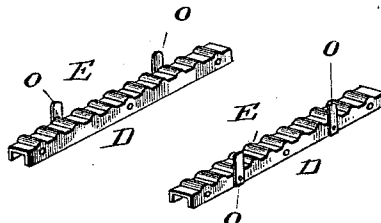


Fig. 6.



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UNITED STATES PATENT OFFICE.

THEODORE R. TIMBY, OF WASHINGTON, DISTRICT OF COLUMBIA.

APPARATUS FOR AGING WINES OR DISTILLED LIQUORS.

SPECIFICATION forming part of Letters Patent No. 527,564, dated October 16, 1894.

Application filed August 15, 1893. Renewed June 25, 1894. Serial No. 515,661. (No model.)

To all whom it may concern:

Be it known that I, THEODORE R. TIMBY, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Apparatus for Aging Wines or Distilled Liquors, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to apparatus for aging wines and distilled liquors.

The object of the invention is to produce an agitating apparatus, by which wines and liquors, and especially whisky, in barrels or other packages, may be kept in agitation, and whereby a peculiar kind of agitation or series of shocks may be imparted to the liquor.

Figure 1 is a perspective view showing part of the floor of a store room, and showing a series of cradles or rockers on which the barrels of liquor are supported, and the agitating apparatus. Fig. 2 is a perspective view of a rocker support. Fig. 3 is a perspective view of one of the rocking platforms and its driving mechanism, and the packages supported thereon. Fig. 4 is an elevation of two rocking platforms, connected to a single driving mechanism. Fig. 5 is an end elevation of one of the rocking frames or platforms, and its support, and Fig. 6 is a perspective view of the tracks on which said rocker frame is supported.

A, A, indicate the side rockers of the rocking frame, platform, or support. These rockers are of sufficient strength to support a very considerable weight, and are connected at the top by a suitable platform, as B, which is preferably supplied with concave seats for the barrels which should rest thereon. This, however, is not specially important. The curved bottom of each rocker A rests on a toothed rack or uneven or irregular support or jolter piece D. This jolter piece is preferably a strong casting, which is secured to the floor or floor timbers by screws, bolts, or other suitable fastenings, so as to be easily removable. The jolter piece D, is provided with teeth or bearing surfaces E, which are a little distance apart. Each rocker A rests on one of these jolter pieces.

Each rocker platform, or frame, has some

means for rocking the same. This rocking mechanism, as shown in Fig. 1 is a shaft, as F, bearing cams or eccentrics G, which work against levers H, said levers or walking beams being connected to the rocking platforms by links I. In Fig. 3 the shaft F is driven by a small electric motor K, and has a crank L, which is connected by link I to the rocker platform. In Fig. 4 the shaft F has a crank L, which is connected by link I to a loop M, which is loosely connected to the ends of two platforms. In either case the mechanical construction is such that the rocker may be kept in constant motion when desired, and made to rock on the jolter pieces.

It should be understood that any suitable and available driving means may be employed. The driver or motor forms no part of the novelty of my device, but inasmuch as some driving means is necessary to make the device operative, I have indicated a few of the mechanisms, any one of which may be used.

The movement of the rockers in rocking produces a jarring or jolting of the platform, as the rockers rock over the surface of the teeth E. The character of this jar or jolt is determined by the size of the teeth, and the rapidity and character of the rocking movement.

The jolting pieces D, are made removable and replaceable so that they may be replaced when worn, and also for the purpose of applying such character of jarring movement to the liquors undergoing the aging process as may be desirable. If the teeth or bearing surfaces are close together the jarring movement to the packages will be at shorter intervals than if these surfaces be farther apart, provided the same speed of driving engines be maintained.

The jolter piece may be curved, as shown at D', and attached to the rocker, with substantially the same result as if the jolter piece were straight and the rocker curved. In such case the curved jolter piece may be made to rest on a wear plate S, which may have a roughened surface also if desired, so as to produce such character of jolting or jarring movement to the rocking frames as may be desirable.

Each of the rocking platforms may be pro-

vided with springs, as T, T, to support either end or both ends of the rocker, so that the springs will restore the platform to midway position when the engine stops, and may be made to act to equalize the movement of the driving mechanism, or to act in opposition thereto, or assistance thereof, according to the character of the motor and the kind of movement desired. These details will be readily understood by the skilled mechanic, when the general principles of the invention are explained. The rockers may be guided and kept in line with the supports by flanges O, which extend from the supports past the edges of the rockers, or in reverse direction, as shown in Fig. 1.

From the foregoing description it will be understood that many changes may be made in the details of construction, without departing from the spirit of my invention.

My invention is to be distinguished from a device in which the rockers are brought down against a solid surface at the end of each rocking movement. Such a device would give a shock or jar at intervals, whereas my device of a jolting surface, acting all the time, serves to keep the liquors undergoing the aging process in a constant tremor, as well as to keep them moving from side to side in the packages.

As shown in Fig. 1, the rocking frames are arranged at each side of the elevated walks or passage ways P, so that the barrels may be conveyed along said passage ways and quickly transferred to the rocking frames, and the driving mechanism may be out of the way under said platforms.

It will be understood that each rocking platform may support one, two, or more series of barrels, and by a simple arrangement of driving mechanism and supports the motion imparted to each frame may be different from the motion of its neighbor. The barrels may then be transferred from a slow moving to a

quick moving frame when desirable, without much delay or expense.

What I claim is—

1. In an apparatus for aging liquors, the platform, the curved rocker, and a support therefor, one of the engaging surfaces between said rocker and support having a series of projections, whereby a tremor is produced as the platform rocks, all combined substantially as described.

2. In an apparatus for aging liquors, the platform, the curved rocker, and a removable jolter piece having a series of projections, said jolter piece forming one of the bearing surfaces between the rocker and its support, all combined substantially as described.

3. In an apparatus for aging liquors, the platform and its curved rocker, and a jolter piece having a series of projections and forming one of the rocker supporting surfaces, and side guides for said rockers, whereby a tremulous movement of the platform is produced and the rocker guided, all combined substantially as described.

4. In an apparatus for aging liquors, a series of platforms and driving motors therefor, each platform having curved rockers, and supports therefor, one of the bearing surfaces on which the rocker turns having a series of projections, all in combination substantially as described.

5. In an apparatus for aging liquors, the platform, the curved rocker, and a bearing therefor, one part of the engaging surfaces having a series of teeth or projections, and a spring connected to the platform, and a fixed support, all combined substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THEODORE R. TIMBY.

Witnesses:

W. A. BARTLETT,
C. K. DAVIES.