

(No Model.)

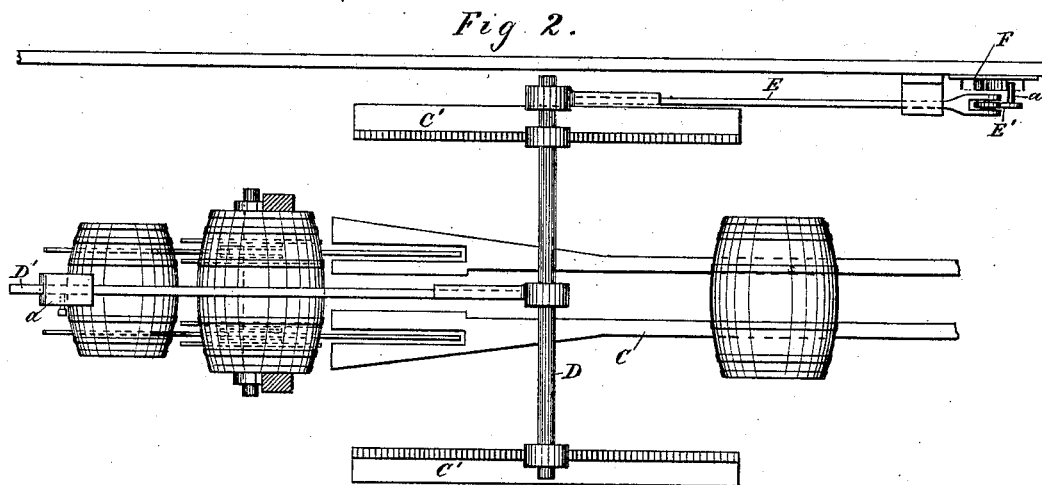
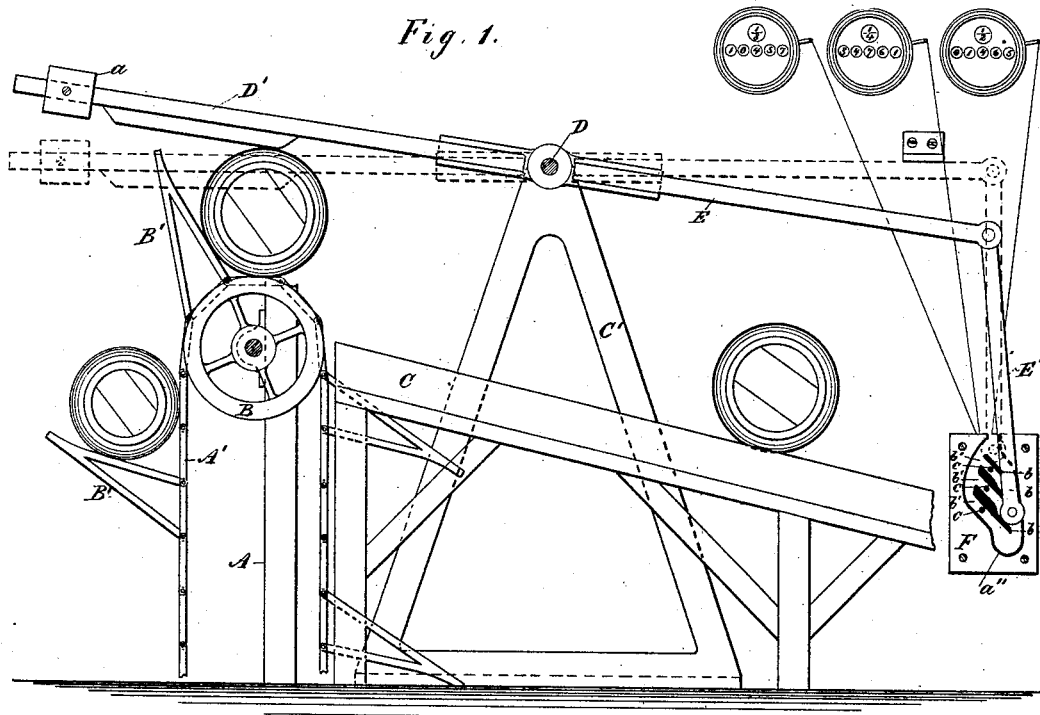
3 Sheets—Sheet 1.

C. HEMJE.

DEVICE FOR INDICATING AND REGISTERING PACKAGES OF
VARYING SIZES.

No. 301,591.

Patented July 8, 1884.



Witnesses:
Albrecht Becker.
C. R. Henscom.

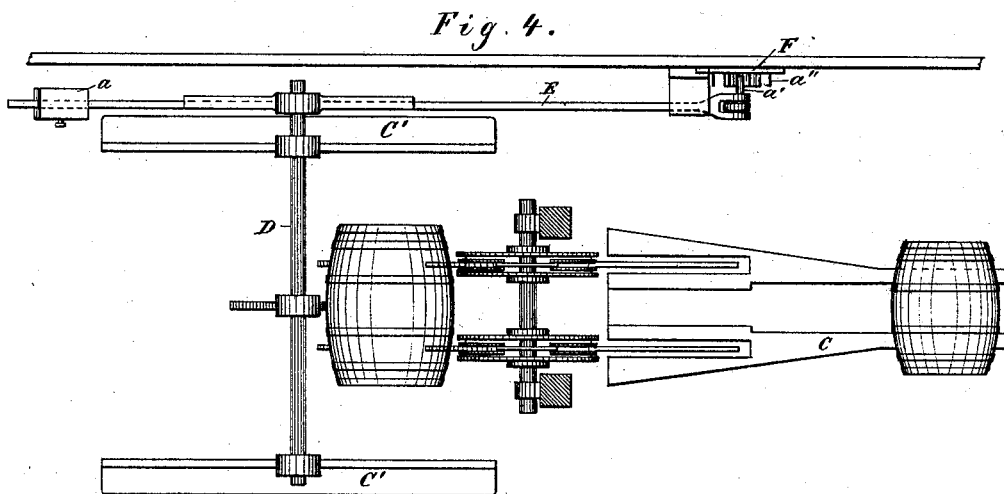
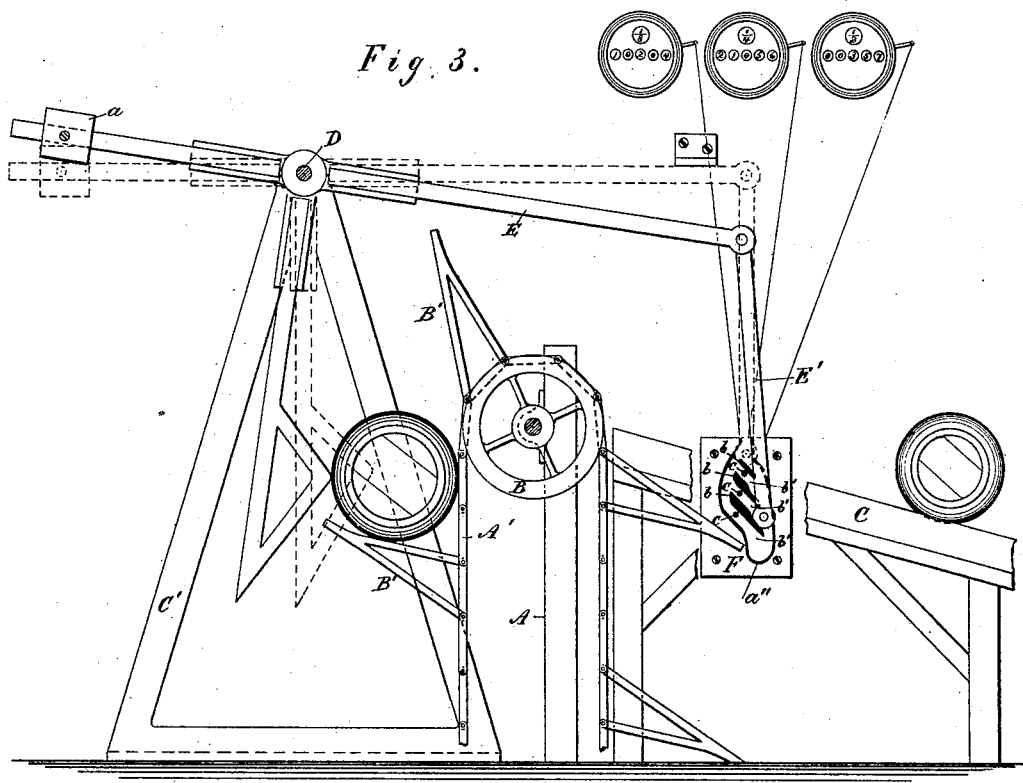
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By *W. G. Salsburg*
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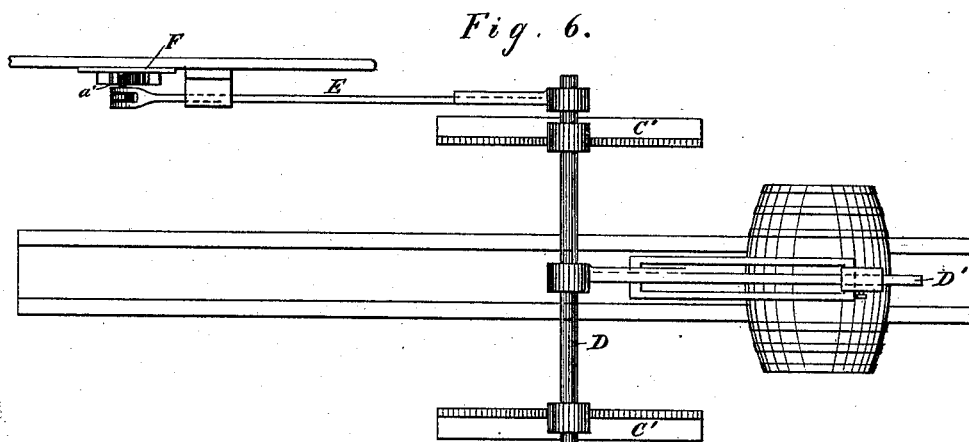
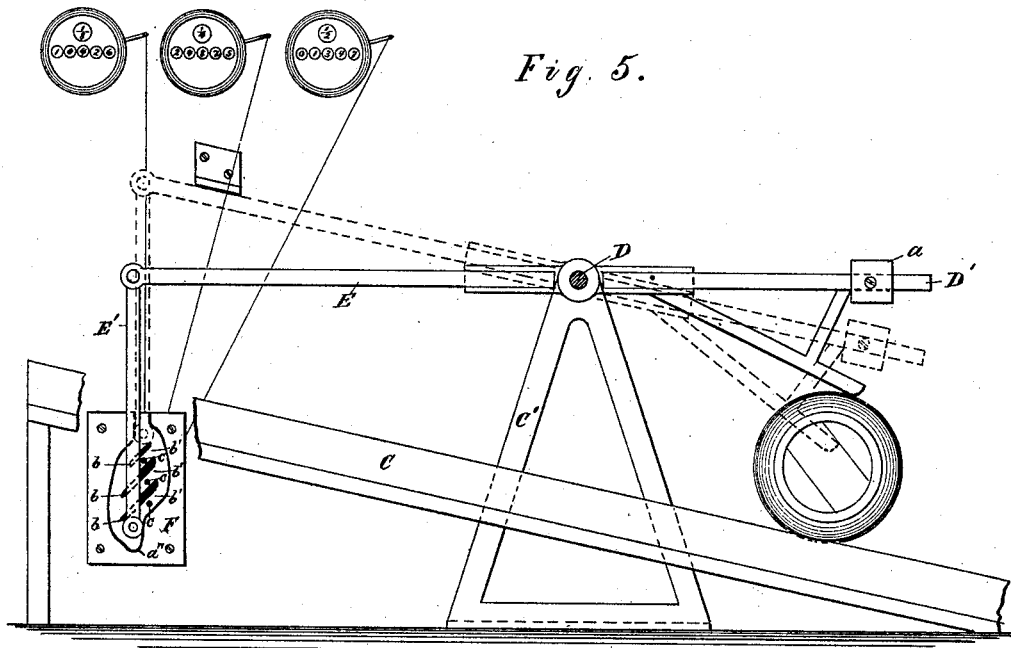
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UNITED STATES PATENT OFFICE.

CHARLES HEMJE, OF WASHINGTON, DISTRICT OF COLUMBIA.

DEVICE FOR INDICATING AND REGISTERING PACKAGES OF VARYING SIZES.

SPECIFICATION forming part of Letters Patent No. 301,591, dated July 8, 1884.

Application filed November 6, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HEMJE, a citizen of the United States, residing at Washington city, in the District of Columbia, have invented certain new and useful Improvements in Devices for Indicating and Registering Packages of Varying Sizes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to devices for indicating the number and size of barrels or casks while in transit from or to the cellar or vaults of breweries or other places of storage to the wagons, cars, or other means of conveyance; and the object of my invention is to provide a mechanism which will count and record, by means of a series of registers, the number and capacity of each package as they are taken from or placed in the cellars, vaults, refrigerating or other storage rooms; and to this end my invention consists of a pivoted lever or levers arranged over the slide or chute, or in close proximity to the elevator, which convey the packages or down which the packages are rolled or slid, in such a manner that the packages in their passage down said chute or on said elevator will come in contact with said pivoted lever or levers, and move them to operate an arm connected therewith and to the registering devices where each package is recorded, the extent of the movement of said lever by each package of whatever size coming in contact with it being recorded accurately on one of the series of registers, as will more fully appear.

Referring to the drawings, Figure 1 is a side elevation of my device. Fig. 2 is a top or plan view of the same. Fig. 3 is a side elevation of a modification. Fig. 4 is a top or plan view of Fig. 3. Fig. 5 is a side elevation of a further modification, and Fig. 6 is a top view thereof.

In most breweries where the work is carried on extensively one or more elevators are used for raising the packages of beer from the vaults or cellars, and these elevators usually consist of an endless chain formed of long links running over sprocket or other suitably-shaped wheels or drums located at the top and bottom of the elevator. The links are provided at stated intervals with projecting arms or brackets adapted to receive and support

the barrels or fractions of barrels or other packages and raise them to the desired height or floor, where they are dropped onto the chute or slide and from thence deposited in wagons or cars for general distribution.

My invention is specially designed for this class of breweries, but may be adapted to any and all places where such devices are needed.

In the drawings similar letters of reference refer to like parts in all the figures.

A is the elevator leading from the cellar or vaults to the shipping-floor, and is composed of an endless chain, A', supported by sprocket-wheels B at bottom and top, and driven by any suitable mechanism. The chain A' is composed of a series of long, broad links, which are provided with projecting arms or brackets B', on which the barrels, kegs, or other packages are placed, and by which they are raised and deposited on the platform or chute C, which conveys them to the door of the building.

The devices just mentioned are those now in common use, and are shown and described for the sole purpose of more clearly defining my invention, which I will now proceed to describe in detail.

C' C' are uprights or posts secured to the floor on each side of the elevator or chute, in the upper ends of which is mounted the shaft D.

Secured to the shaft D is an arm or lever, D', which projects over into the path or track traversed by the barrels or casks, either over the chute or in close proximity to the elevator, so that the packages will impinge on said lever and push it to one side. The lever D' is provided with a counter-weight, a, by means of which it is returned to its original or normal position after the passage of each package.

E is a lever or arm rigidly secured to one end of the shaft D, to the outer end of which is pivoted the pendulum lever or arm E', the lower end of which is provided with a pin or projection, a', the office or function of which will more fully appear hereinafter.

F is a box or plate secured to any suitable frame-work or to the wall of the building, and is provided with any desired number of inclined flanges or projections, b, which form inclined grooves or ways b' between said flanges or projections, into which the pin a' of the

pendulum-arm E' projects, and by which it is guided in the upward movement of the arm E. The lower end of the pendulum-arm E', with the pin thereon, is guided and held in close proximity to the projections *b* by a guide flange or projection, *a'*, the pendulum-arm E' swinging into the guideways by force of gravity, or may be forced in by a suitable spring.

Located within the grooves or ways *b'*, and within the path of the pin or projection *a'*, are electric buttons or knobs, against which the pins *a'* impinge and force them outward to connect or complete the electric circuit to operate the registers. The wires which operate the registers may connect with bell-crank levers or other suitable devices to be operated upon by the pin *a'* of the pendulum-arm E', and thus dispense with the use of electricity; but I prefer to use electricity, and the devices shown, as they are more certain and accurate in operation, and not so liable to get out of order.

The operation of my device is as follows: The normal position of the lever D' is down, as shown in dotted lines, so as to be impinged upon by the package, no matter whether it is over the chute or so as to be operated by the package while on the elevator. The raising of the lever D' depresses the outer end of the lever E, and carries down with it the pendulum-arm E', and when said arm has reached its limit it swings into one of the grooves *b'*, and the upward movement of the lever E causes the pin *a'* to traverse one of the grooves or ways *b'* and to impinge against the button *c* and register the package on its respective indicator. If a small package has been raised, the lever D' will be raised only a short distance, and the pin *a'* will travel through the upper way or guide, striking the button *c* and causing the indicator with which it is connected to register a small package—as, for instance, one-eighth of a barrel of beer—a separate register being provided for each kind or size of package, and connected to its respective button in the ways or groove *b'*. If a larger package is raised, the lever E with arm E' will be still further depressed and the pin *a'* will enter the second way or groove and cause the register connected with the button in this groove to record the package, and so on.

In Figs. 3 and 4 I have shown an arrangement by which the number and size of each package can be registered during the process of storing the packages in the cellars, vaults, or other places, and it differs from the other devices heretofore described only in this, that the operating-lever is connected to the shaft D, so as to hang in a vertical position, and is operated by the package impinging against it in its ascent or descent. This form may be used to advantage on a separate elevator for lowering the packages from the filling or packing room to the cellar or vaults below, thus indicating the size and number of packages stored in the vaults or cellar, while the devices shown in Figs. 1 and 5 are used for indicating the

size and number of packages withdrawn or taken out of the vaults or cellar, and thus an account of stock on hand can be accurately taken at any time without trouble or annoyance by simply subtracting the numbers on the outgoing indicators from the numbers on the indicators which register the number of packages stored in the vaults.

In the modification shown in Figs. 5 and 6 the operating-lever D' is projected over the way or chute and is operated by the passage of the package down the chute.

The series of indicators may be located in the office or at any convenient or desirable place.

Instead of having the lever-arms above the chute or ways, I may have a portion of the way hinged at one end and the other end resting on pivoted levers underneath, which are connected to the registering devices in the same manner as above described.

I have spoken of my device as applicable to breweries and beer-venders; but it is obvious that it can be used to great advantage by fish packers and dealers, molasses and sirup manufacturers, distillers and rectifiers of liquors, and for many other purposes.

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

1. The vibrating arm or lever, the pendulum-lever carrying a pin, a plate having a series of grooves in which said pin travels, combined with a series of indicators or registers independently connected by electrical conductors to buttons mounted in said grooves, as set forth.

2. A device for indicating and registering packages of varying size, a pendulum arm or lever connected to the operating devices in the manner described, and provided with a pin adapted to enter grooves or guides *b'* and to impinge against an electric button or other suitable device for operating the indicators, as set forth.

3. In a device for indicating and registering packages of varying size, the lever-arm E, secured to shaft D, and adapted to be operated by said shaft in the manner described, in combination with the pendulum arm or lever E', pin *a'*, guide *a''*, and ways *b'*, in which are located the devices for operating the registers in the manner set forth.

4. In an indicating and registering device, a plate having a series of projections which form inclined grooves or ways between them in which an arm or other device is caused to travel by the weight or size of the package to operate a device located within the inclined grooves and connected with the indicator or indicators, as set forth.

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

CHARLES HEMJE.

Witnesses:

C. R. HANSCOM,

GEO. W. TATSPAUGH.