2 Sheets--Sheet 1.

R. H. WEBB.

Counting and Registering Apparatus.

No. 154,358. Patented Aug. 25, 1874.

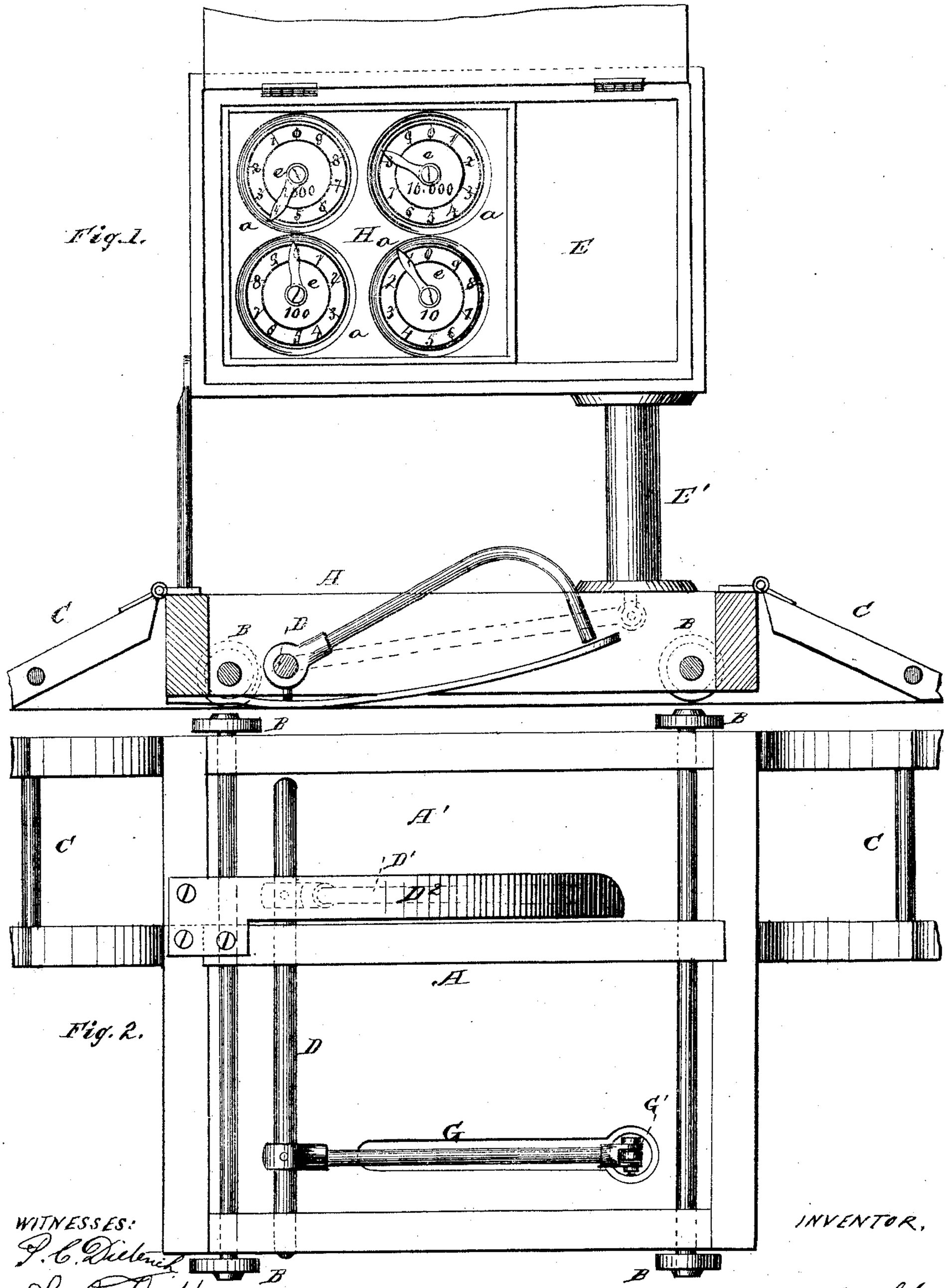

Fig. 1.

Fig. 2.

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2 Sheets--Sheet 2.

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Fig. 3.

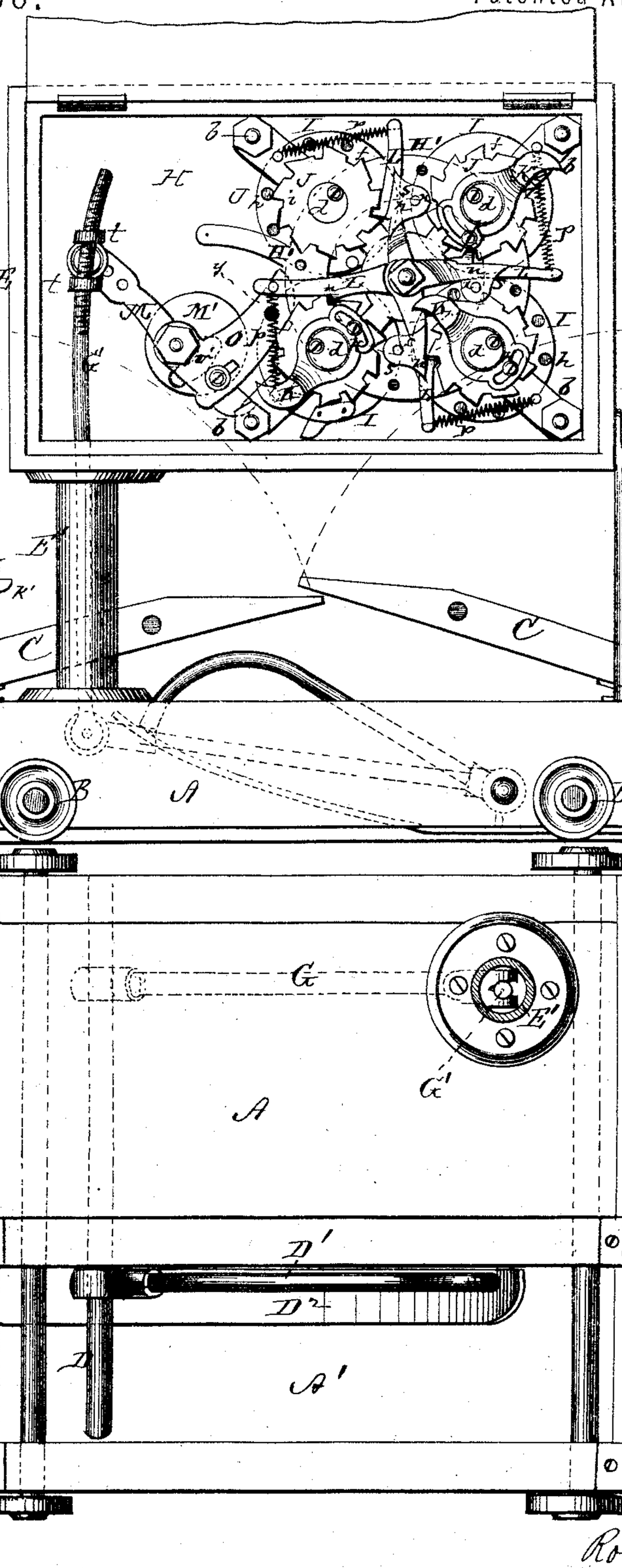


Fig. 6.

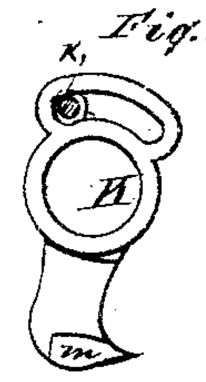


Fig. 5

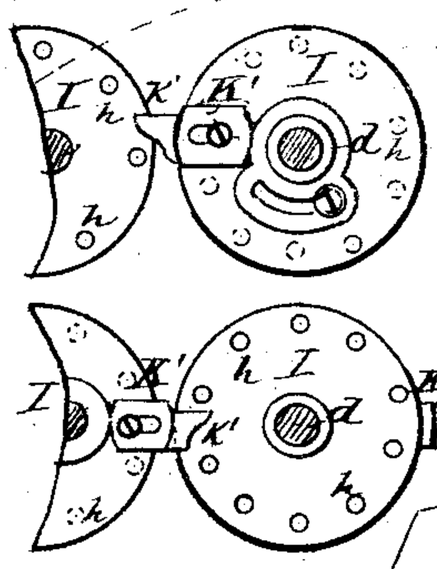


Fig. 7.

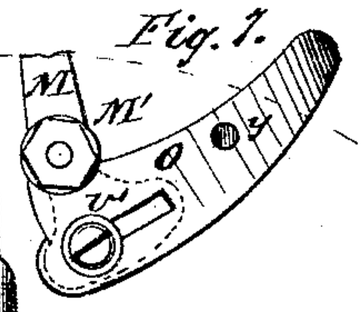


Fig. 9.

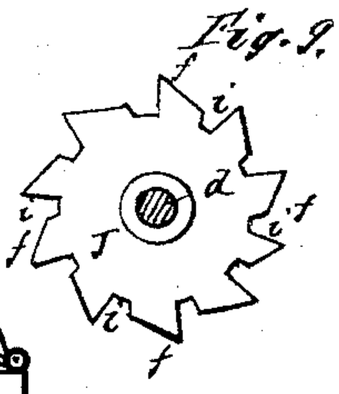


Fig. 8.

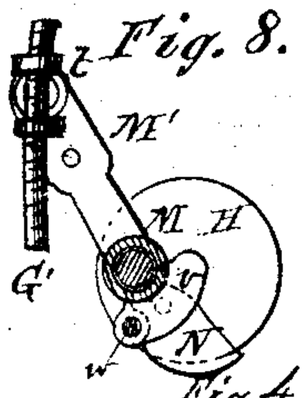
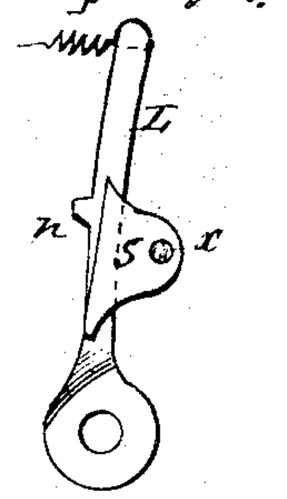


Fig. 4.

Fig. 10.



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INVENTOR.

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UNITED STATES PATENT OFFICE.

ROBERT H. WEBB, OF LONG ISLAND CITY, NEW YORK.

IMPROVEMENT IN COUNTING AND REGISTERING APPARATUS.

Specification forming part of Letters Patent No. **154,358**, dated August 25, 1874; application filed June 3, 1874.

To all whom it may concern:

Be it known that I, ROBERT H. WEBB, of Long Island City, in the county of Queens and State of New York, have invented certain new and useful Improvements in Counting and Registering; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This machine is called a counting and registering apparatus, and it is calculated to be attached to any machinery where a record of number or quantity may be needed, whether gallons of liquid, bushels of grain, or any other commodity that can be counted or tallied.

The nature of my invention consists in the construction and arrangement of a device for registering the number of barrels passing out of a brewery, distillery, or other places where such devices may be applied, as will be hereinafter more fully set forth.

In the accompanying drawings, Figure 1 is a front elevation of my device. Fig. 2 is a bottom view of the same. Fig. 3 is a rear elevation of the same, showing the interior of the registering apparatus. Fig. 4 is a plan view of the bed of the machine, and Figs. 5 to 10 represent details of the same.

A represents the base or platform of my machine, supported upon suitable truck-wheels B B, which may either be placed upon axles, as shown, or be otherwise arranged, as desired. Along the front of the platform A is an aperture, A′, and at each end thereof are hinged ways C C, which, when thrown down, as shown in Fig. 1, form inclines, upon which the barrels are to be rolled up on one side of the platform, over the front portion thereof, and down the incline at the other side. Elevated above the rear part of the platform A is a box or case, E, containing the registering apparatus, said case being supported upon rods or pillars, one, E′, of which is hollow, as shown in Fig. 1. D represents a shaft, passing through suitable bearings crosswise in the base A near one side; and to this shaft, within the aperture A′, is firmly secured an arm, D^1, the outer end of which is curved downward, as shown, and rests upon a spring, D^2. This spring holds the curved end of the arm D^1, or a portion thereof, above the upper surface of the platform. Near the rear end of the shaft D is secured another arm, G, and to the outer end of this arm is pivoted a rod, G′, which passes up through the hollow post E′ into the case E, and connects with the registering apparatus therein. When the machine is not in use, or when moving it from place to place, the ways C C are thrown up over the platform, as shown in Fig. 3.

The registering apparatus consists of a plate, H, upon the face of which are formed four (more or less) dials, *a*, and a suitable distance from the back of said plate, and connected thereto by bolts *b b*, is a skeleton frame or plate, H′. Through these two plates pass four horizontal shafts, *d*, which pass each through the center of a dial, *a*, and has a hand or finger, *e*, attached to it. Upon each shaft *d*, between the plates H H, is secured a disk or wheel, I, from one side of which project ten pins, *h*, at equal distances apart, and arranged in circular form concentric with the shaft. On the rear end of the shaft *d*—that is, upon the back side of the plate H′—is secured a wheel, J, provided with ten teeth, *f*, of equal size, and at the base of each tooth is cut a notch, *i*. Around the end of the shaft, on the side of the wheel J, is secured an arm, K, which is slotted at its inner end and adjusted by a set-screw, *k*, passing through said slot into the wheel. On the inner side of the projecting end of this arm K is an inlined flange or cam, *m*. Upon the side of the wheel I, opposite to that from which the pins *h* project, is adjusted an arm, K′, in like manner, and this arm is provided with an adjustable point, *k′*. The arm K′ is adjusted to stand opposite either of the pins *h*, while the point *k′* is adjusted to project more or less beyond the circumference of the wheel. Upon a center stud projecting from the plate H are pivoted four levers, L L, which are each provided with a projection, *n*, to fit against the face of a tooth, *f*, on the wheels J, and in the notch *i* at the base of the adjoining tooth. These levers are held by means of springs *p*—one against each of the wheels J. The second, third, and fourth of these levers in the

series are each provided with a projection or ear, *s*, from which projects a pin, *x*. The rod G′, which operates the registering apparatus, is screwed into a swivel, *t*, upon an arm, M, projecting from a sleeve, M′, placed upon a stud attached to the plate H. From this sleeve projects a flange, *v*, having a pin, *w*, and to this flange is pivoted a latch, N. Upon another flange, *v′*, on said sleeve is adjusted a spring-plate, O, from which a beveled pin, *y*, projects.

The operation of this device is as follows: When a barrel is rolled over the platform A the arm D[1] is depressed, which rocks the shaft D, so as to throw the arm G downward, thereby pulling down the rod G′. This draws the arm M also downward, which causes the pin *y* on the spring-plate O to catch under the end of the first lever L of the series, turning the same on its pivot until its projection *n* has cleared the tooth *f*, against which it was held by its spring. At this time the latch N will strike one of the pins *h* on the wheel I of the first set and turn the same one-tenth of a revolution, causing the first index-hand, *e*, to show 1 upon its dial. As soon as the pin *y* clears the end of the lever L, the spring attached to said lever at once throws it down to come against the next tooth on the wheel J, it being understood that the wheels I J turn simultaneously, they being attached to the same shaft. As soon as the barrel has passed over the arm D[1] the spring D[2] throws the same upward again, thereby raising the rod G′ and arm M. This movement throws the pin *y* on the spring-arm O below the lever L again, the pin being beveled and the arm yielding for that purpose, and the latch N turns on its pivot to clear the next pin, *h*, on the wheel I. The same operation is performed every time a barrel passes over the platform. When the wheels I J of the first set complete one revolution the cam *m* of the arm K attached to said set strikes the pin *x* on the lever of the next set, and draws it from its place in the toothed wheel of said second set; at the same time the point *k′* of the first set, striking a pin, *h*, on the wheel I of the second set and turning said set, one-tenth of a revolution. In like manner the other sets are operated, showing upon the various dials units, tens, hundreds, thousands, &c.

This register may be applied to portable platforms, or to stationary runs in warehouses or stores, for counting barrels, filled or empty, and for small packages, and may also be attached to any machinery where a record of number or quantity may be needed, such as gallons of oil or liquid and bushels of grain.

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

1. The combination of the rod G′, swivel *t*, hollow sleeve M′, with arm M, flange *v′*, spring-arm O, and beveled pin *y*, substantially as and for the purposes herein set forth.

2. The combination of the index-shaft *d*, wheel I, with pins *h*, wheel J, with teeth *f* and notches *i*, and lever L, with projection *n* and spring *p*, substantially as and for the purposes herein set forth.

3. The adjustable arm K, with cam *m*, in combination with the pin *x* on the lever L, for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ROBERT H. WEBB.

Witnesses:
L. P. DEXTER,
W. I. WARDWELL.