P. HARRY.

REGISTER.

No. 187,464. Patented Feb. 20, 1877.

Fig. 1

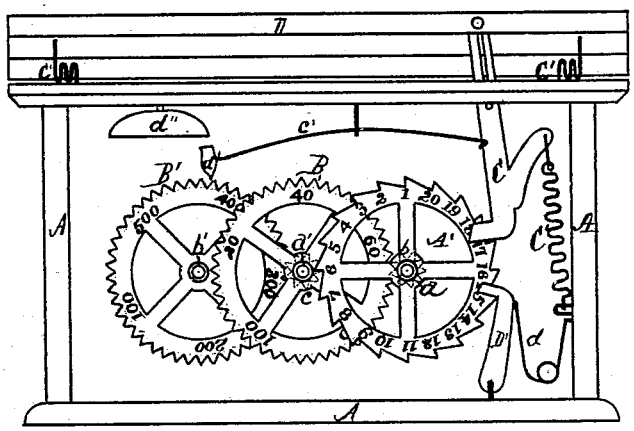
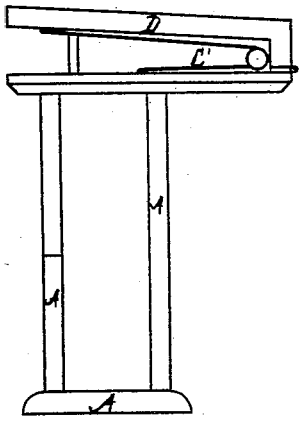


Fig. 2



Witnesses:

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Inventor:

Paul Harry

by R. H. Ingersoll

Atty.

UNITED STATES PATENT OFFICE.

PAUL HARRY, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN REGISTERS.

Specification forming part of Letters Patent No. **187,464**, dated February 20, 1877; application filed April 1, 1876.

To all whom it may concern:

Be it known that I, PAUL HARRY, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Passenger or Grain Indicators; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention relates to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a front view of indicator with side of box removed. Fig. 2 is end view, showing yielding platform.

My invention relates to indicators for cars or omnibuses, and also for grain-elevators; and consists in arranging a combination of gears actuated by an arm or lever connected to a yielding platform or floor, for the purpose of indicating the number of persons entering or leaving a car or vehicle, and also in indicating the number of bushels or pounds of grain received into, and discharged from, elevators.

In the accompanying drawing, A represents an ordinary box to contain the mechanism; A′, ratchet-wheel secured to the shaft *a*, each ratchet being provided with a number—in this instance, from 1 to 20; but the exact number I do not consider essential, as they could be divided in many ways, as from 1 to 5 or 1 to 10, &c.; B, gear-wheels, and also registering-wheel, secured to the shaft *a* engaging the pinion *b*, and is also provided with numbers from 20 to 100, or these could be changed to correspond with any number used upon the ratchet-wheel; B′, gear-wheel and also registering-wheel secured to the shaft *b′* and engaging the pinion *c* secured to the shaft *a′*, and is also provided with numbers from 100 to 500; C, lever, the upper end secured to the yielding cover or floor D, and the lower end engaging the teeth of the ratchet-wheel A′; C′, spring, the upper end secured to the lever, and the opposite end secured to the box in such a manner that it holds the lever against the ratchet; D′, pawl, the lower end secured to the bottom of the box, and the upper end resting against the ratchets, and the spring *d* arranged to hold it in position; *d′*, hammer secured to the handle *c′*, the opposite end connected to the lever C; *d″*, bell secured to the box in a suitable manner and in position, so that the hammer can strike the same; C′, springs under the yielding cover or floor, to force the same back into position after it has been pressed down.

Having thus indicated the different parts of my invention I will now explain its operation.

The machine is placed in a convenient position, and connected to the yielding cover or floor, which is placed at the entrance of the vehicle or car. When a person enters the same their weight comes upon the yielding cover and forces it down. The top of the lever being secured to the same is also forced down the same distance, and as the bottom engages a tooth in the ratchet-wheel it must revolve the length of one tooth, indicating by the number that one person has entered, and at the same time strikes the bell.

It will be observed that there are twenty numbers on the ratchet. When it has passed around once it indicates that twenty persons have passed over the same, and that number is then indicated on the second wheel. At the next turn of the ratchet the second wheel would indicate forty, and so on until one hundred is reached, when that number would be indicated on the third wheel, and so on to five hundred or more, or less, if desired.

At any time when convenient the box is opened, and the number of persons entering and leaving the car or omnibus ascertained, and if only the number entering is required one-half the whole number is taken.

In weighing grain in elevators where five or six hundred bushels are drawn into the hopper at once this invention will be very convenient, and act in the same manner as above, with the exception that the figures will indicate the number of bushels or pounds, as the case may be.

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

An indicator consisting of the combination

of the box or case A, numbered ratchet A′, numbered gear-wheels B and B′, the shafts and pinions operating in connection with the said ratchet and gears, the lever C, pawl D, the bell, hammer, pawl, and springs, all arranged for operation together, substantially as and for the purposes set forth.

The above specification signed by me this 2d day of March, 1876.

PAUL HARRY.

Witnesses:
T. Z. INGERSOLL,
R. D. INGERSOLL.