E. A. CHAMEROY.

Recording Scale Beam.

No. 234,656. Patented Nov. 23, 1880.

Fig. 1.

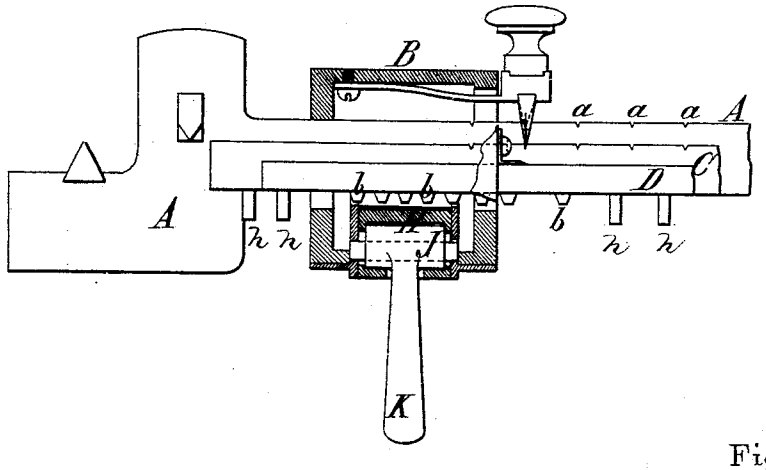


Fig. 2.

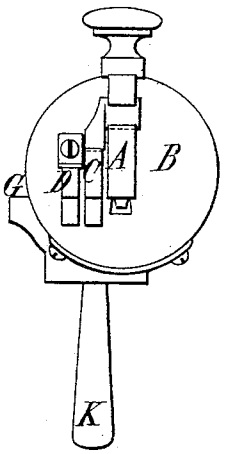


Fig. 3.

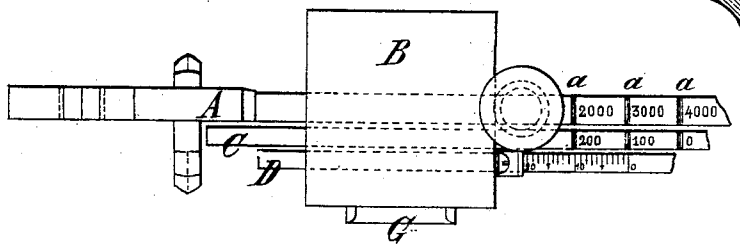


Fig. 4.

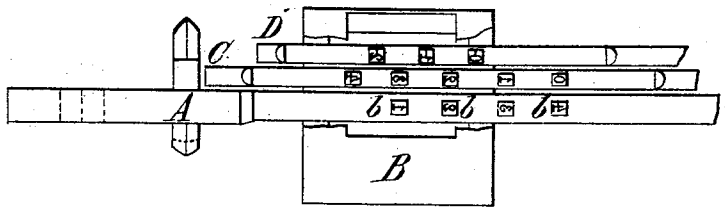
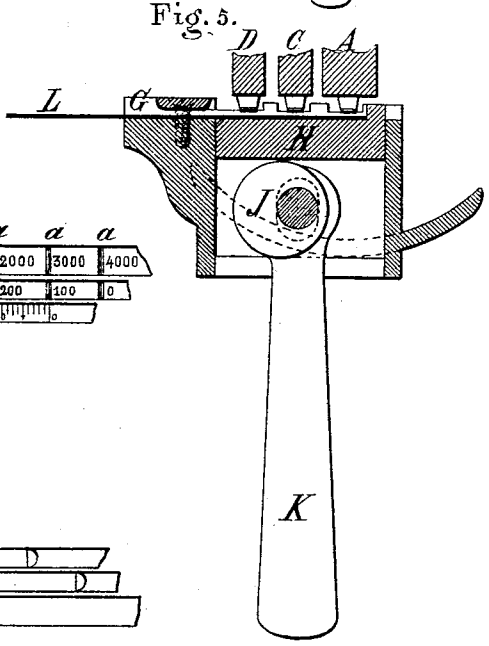


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDME A. CHAMEROY, OF PARIS, FRANCE.

RECORDING SCALE-BEAM.

SPECIFICATION forming part of Letters Patent No. 234,656, dated November 23, 1880.

Application filed November 7, 1878. Patented in England March 6, 1875.

To all whom it may concern:

Be it known that I, EDME AUGUSTIN CHAMEROY, of Paris, France, have invented an Improvement in Scale-Beams, (patented in England, dated March 6, 1875, No. 828,) of which the following is a specification.

The improvement in the registering scale-beams to which the present application for patent relates is the scale-beams mentioned in my first patent, dated November 2, 1875, No. 169,415. These improvements refer especially to registering scale-beams with multiple weights, and constructed so as to indicate the weight either by impressing or printing types upon tickets, upon rolls of continuous paper, upon bills of delivery, &c. I shall describe fully the special disposition of the tickets which I have appropriated to register the weight indicated by my scale-beams.

For the double-armed scale-beams, or for scales with two runners, it is sufficient, in order to apply the means of controlling the weights, that each runner possess a system of register the figures of which will dispose themselves upon the same cards, so as to form easily the number representing the indicated weight.

Figures 1, 2, 3, 4, and 5 represent, in Fig. 1, a scale-beam with a runner divided in sectional elevation; Fig. 2, an end view; Fig. 3, a plan; Fig. 4, a view from underneath, and Fig. 5 a transverse section.

Beam A has on its upper edge notches *a*, indicating the weight, and underneath to these notches figures in rilievo, *b*. The runner or movable weight B slides upon this beam. In the interior of this first runner are two parallel sliding bars, C and D, furnished with handles *h*, each one of which has upon its under side, in rilievo, the figures 0 to 9. The figures of beam A represent the hundreds, those of bar C represent the tens, and those of bar D the units. The object to be weighed is placed upon the platform, the runner set in the hundreds-notch nearest to, but short of, the full weight; then the bars C and D adjusted, the first to nearest tens-notch and the latter to units, which brings the type on the under side of the bars into a corresponding relative position. In the side of the runner B there is an opening, G, in the plane of the type for the insertion of the card L, or whatever it may be, to receive the impression. Below the type is a platen, H, caused to move up and down by means of the cam J through the handle K. The card is placed on the platen, as shown in Fig. 5; then turning the handle K, the cam J forces the platen up and the paper against the type to receive the impression of the type and register the weight upon the card, and which is then removed, each successive weighing indicated or registered in like manner.

If desirable, inking apparatus such as is well known may be applied, so as to ink the type, and thus print instead of impressing or raising the figures on the card.

If preferred, the figure, instead of being arranged on the beam and bars, may be arranged on disks, the units-disk operated by the bar C, the tens by bar D, hundreds by bar A, and so that the figures will come into line. Such a registering apparatus is too well known to require particular description.

It will be understood that the indications may be thousands or tens of thousands instead of hundreds, and so on down, or that other bars may be added, as for thousands, tens of thousands, &c., each bar making its own registration, as before described.

I claim—

In a weighing-scale, the combination of the beam, runner thereon, and one or more sliding bars through said runner, each a multiple of the other, and a registering mechanism adjusted by the means of said runner and bars, and a printing mechanism to take from said registering device an impression indicating the weight, substantially as described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

E. A. CHAMEROY.

Witnesses:

ROBT. M. HOOPER,

CHARLES MARDELER.