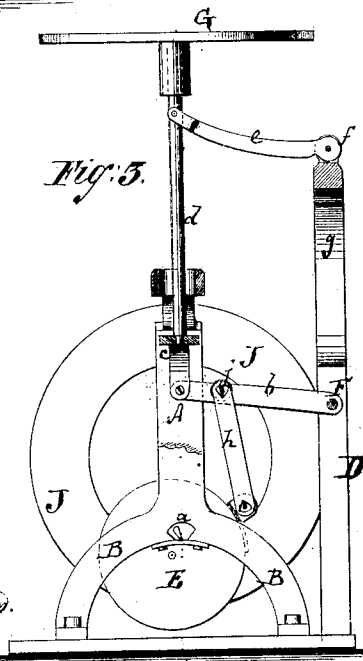
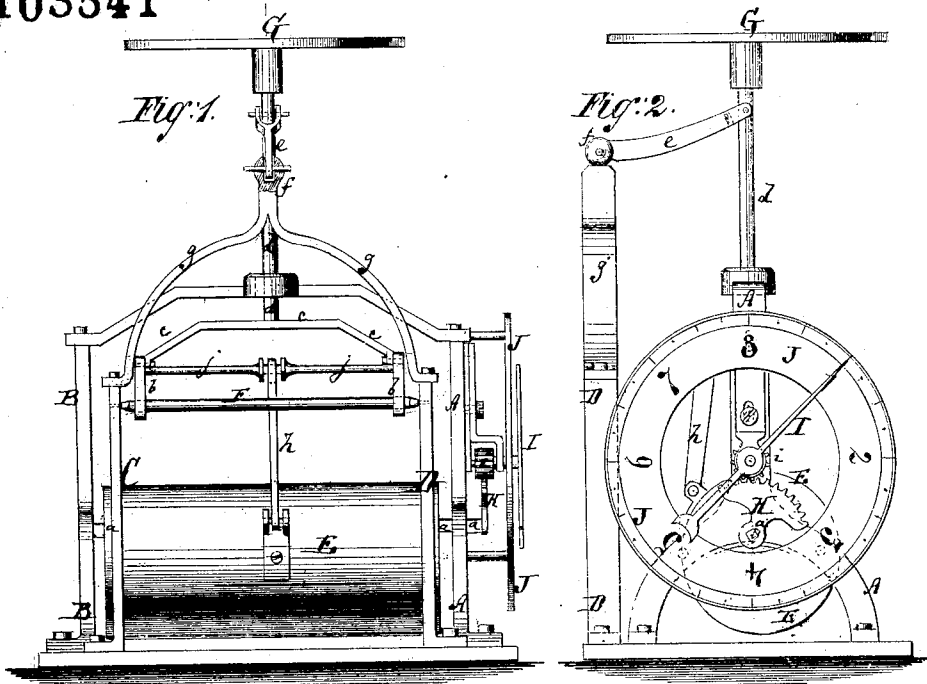


PATENTED MAY 31 1870

A. Assmann, Platform Scale

103541



Witnesses:

C. Rattig
Edgar Tate

Inventor:

A. Assmann

PER *Wm Co*

Attorneys.

United States Patent Office.

ALBERT ASSMANN. OF RAHWAY, NEW JERSEY.

Letters Patent No. 103,541, dated May 31, 1870.

IMPROVEMENT IN WEIGHING-SCALES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ALBERT ASSMANN, of Rahway, in the county of Union and State of New Jersey, have invented a new and improved Platform-Scale; 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 make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a side elevation, partly in section, of my improved platform-scale.

Figure 2 is an end elevation of the same.

Figure 3 is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new self-indicating platform-scale, which is made to operate entirely without the use of springs, and which is sufficiently simple to be sensitive to small weights.

The invention consists in a novel arrangement and combination of levers, weight, and revolving index-hand, all as hereinafter more fully described.

The frame of the instrument consists of four standards, A, B, C, and D.

The standards A B stand opposite each other, and form the supports for the pivoted weight E, which is preferably made in form of an eccentric drum or block, hung on knife-edge pivots *a a*.

The standards C D support a horizontal shaft, F, from which two arms, *b b*, project, to form, at their outer ends, the bearings for a cross-bar, C, pivoted in the said arms.

The cross-bar C is formed at the lower end of the shank *d* of the scale-platform G.

The upper part of the shank *d* is, by an arm, *e*, which is equally as long as *b b*, connected with an ear, *f*, that projects from a bar, *g*, uniting the standards C D.

By means of the double parallel connections *b c*, the shank *d* is always held vertical, and the platform G horizontal.

J, a rod uniting the arms *b b*, and connected, by a link, *h*, with the weight E.

One pivot, *a*, of the weight carries a segment, H, which meshes into a pinion, *i*, that is hung to the standard A.

On the arbor of the pinion is secured a hand or pointer, I, playing over a graduated plate, J.

As the platform G is forced down by a weight placed upon it, it will, by the movement of the arms *b b*, swing the weight E in proportion to the power on the platform.

The weight E will remain swung up as long as the weight remains on the platform.

The gear connection with the pointer causes the latter to indicate on the plate J the amount of weight on the platform.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The arrangement of weight E, with respect to the pointer and levers, as set forth, so that the pointer is moved by the weight after being acted upon by the levers, and thereby is enabled exactly to represent its motion.

ALBERT ASSMANN.

Witnesses:

A. V. BRIESEN,
GEO. W. MABELL.