C. BERST.

Weighing Scale.

No. 201,984. Patented April 2, 1878.

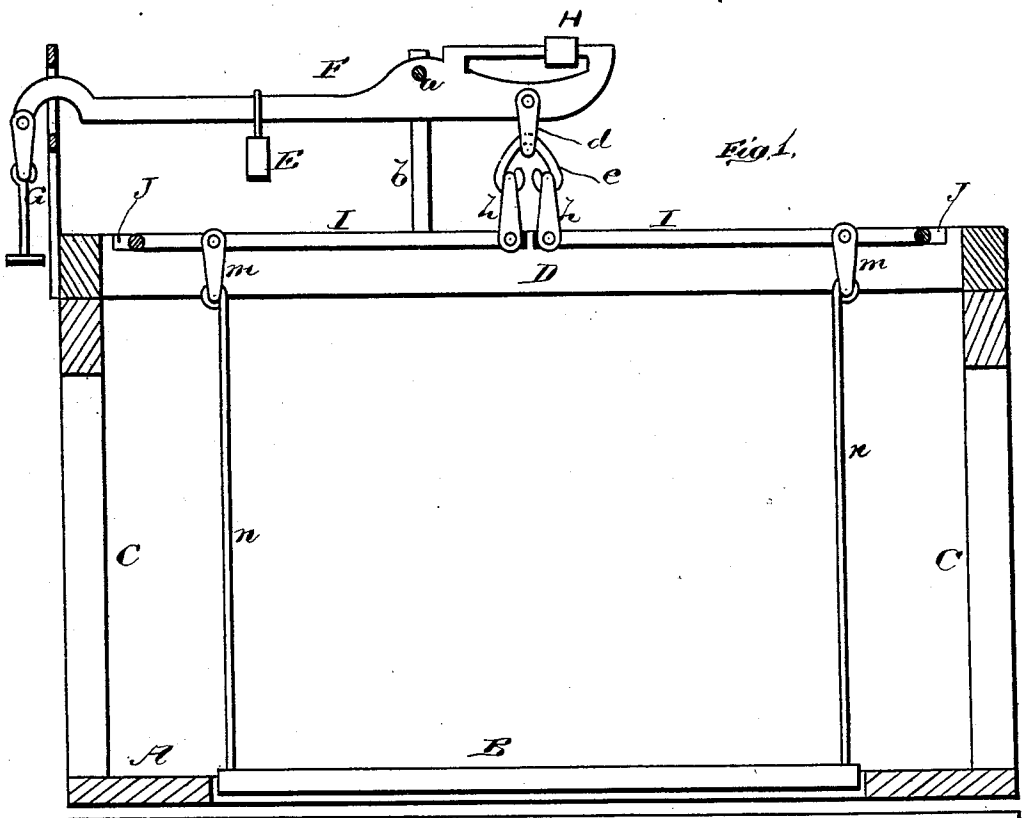


Fig. 1.

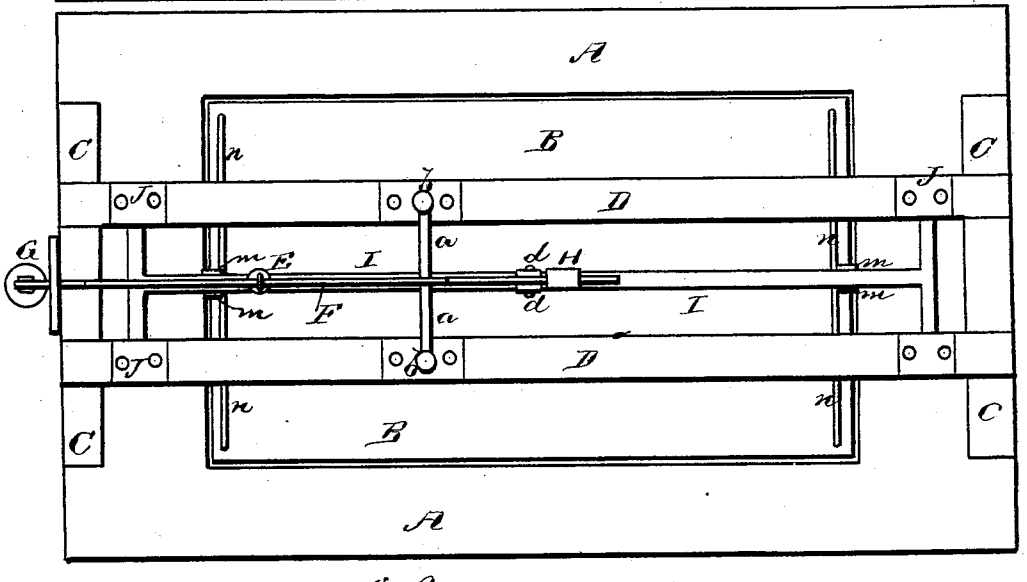


Fig. 2.

WITNESSES

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2 Sheets—Sheet 2.

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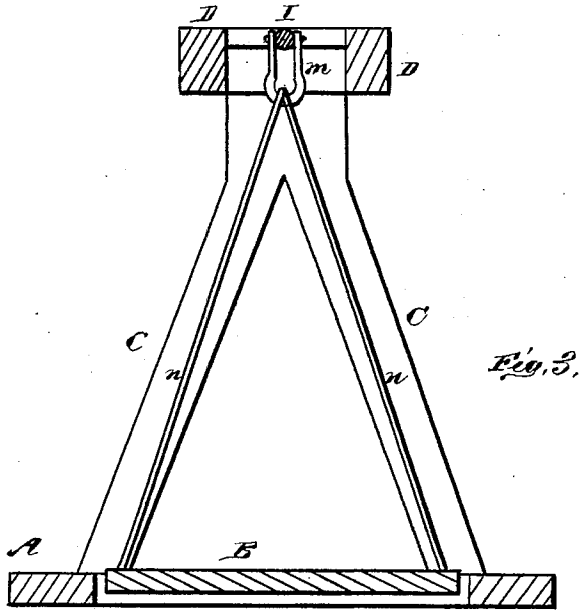


Fig. 3.

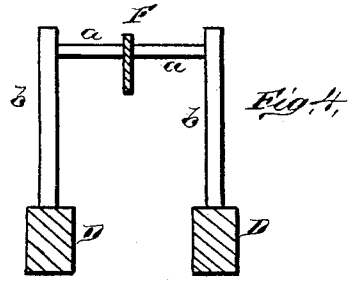


Fig. 4.

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UNITED STATES PATENT OFFICE.

CONRAD BERST, OF WARSAW, INDIANA.

IMPROVEMENT IN WEIGHING-SCALES.

Specification forming part of Letters Patent No. **201,984**, dated April 2, 1878; application filed February 9, 1878.

To all whom it may concern:

Be it known that I, CONRAD BERST, of Warsaw, in the county of Kosciusko and State of Indiana, have invented certain new and useful Improvements in Weighing-Scales; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention relates to weighing-scales; and it consists in the construction and arrangement of a platform suspended at its ends from two elevated separate and independent levers, the inner ends of which are connected to a scale-beam, all as hereinafter more fully set forth, and pointed out in the claim.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a longitudinal vertical section of my weighing-scales, and Fig. 2 is a plan view thereof. Figs. 3 and 4 are sectional details.

A represents a bed-frame of any suitable dimensions, within which the platform B is allowed to move freely the required distance up and down, and also have sufficient play both longitudinally and laterally.

From each end of the bed-frame A rise two standards, C C, which incline toward each other, and are united at their upper ends. These standards at the two ends of the bed-frame are connected at their upper ends by means of two parallel bars, D D, which are placed a suitable distance apart, and thus run longitudinally above the center of the frame and platform.

On the beams D D are two vertical posts, *b b*, in which is hung the scale-beam F by means of the rod or journals *a*. The scale-beam F is provided with the usual sliding poise E, and at its outer end with the hook or its equivalent G, for the attachment of weights. On the inner end of the scale-beam is the adjustable balancing-poise H.

In the inner end of the scale-beam is fastened a link, *d*, through which is passed a double hook, *e*, and upon each end of said hook is attached a link, *h*. The links *h h* are attached to the inner ends of two levers, I I, which are placed between the beams D D, and their outer ends formed in the shape of a T. The ends of the T-arms are placed in boxes or bearings J J attached to the ends of the beams D D, as shown.

It will, of course, be understood that the bearings for the levers I I, as well as for the scale-beam, are made in the usual knife-edge form.

From each lever I, a suitable distance inward from its outer end, is depending a link, *m*, in which are attached two rods, *n n*, fastened in the corners of the platform B. The platform thus becomes suspended from two separate and independent levers, and acting upon a single scale-beam.

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

The combination, with a bed-frame, A, standards C, and beams D D, of the platform B, rods *n n*, links *m m*, levers I I, scale-beam F, and connections *d e h* between the scale-beam and the inner ends of the levers, all substantially as herein set forth.

CONRAD BERST.

Attest:

W. WILLIAMS,

R. J. CHESTNUTWOOD, Jr.