

(No Model.)

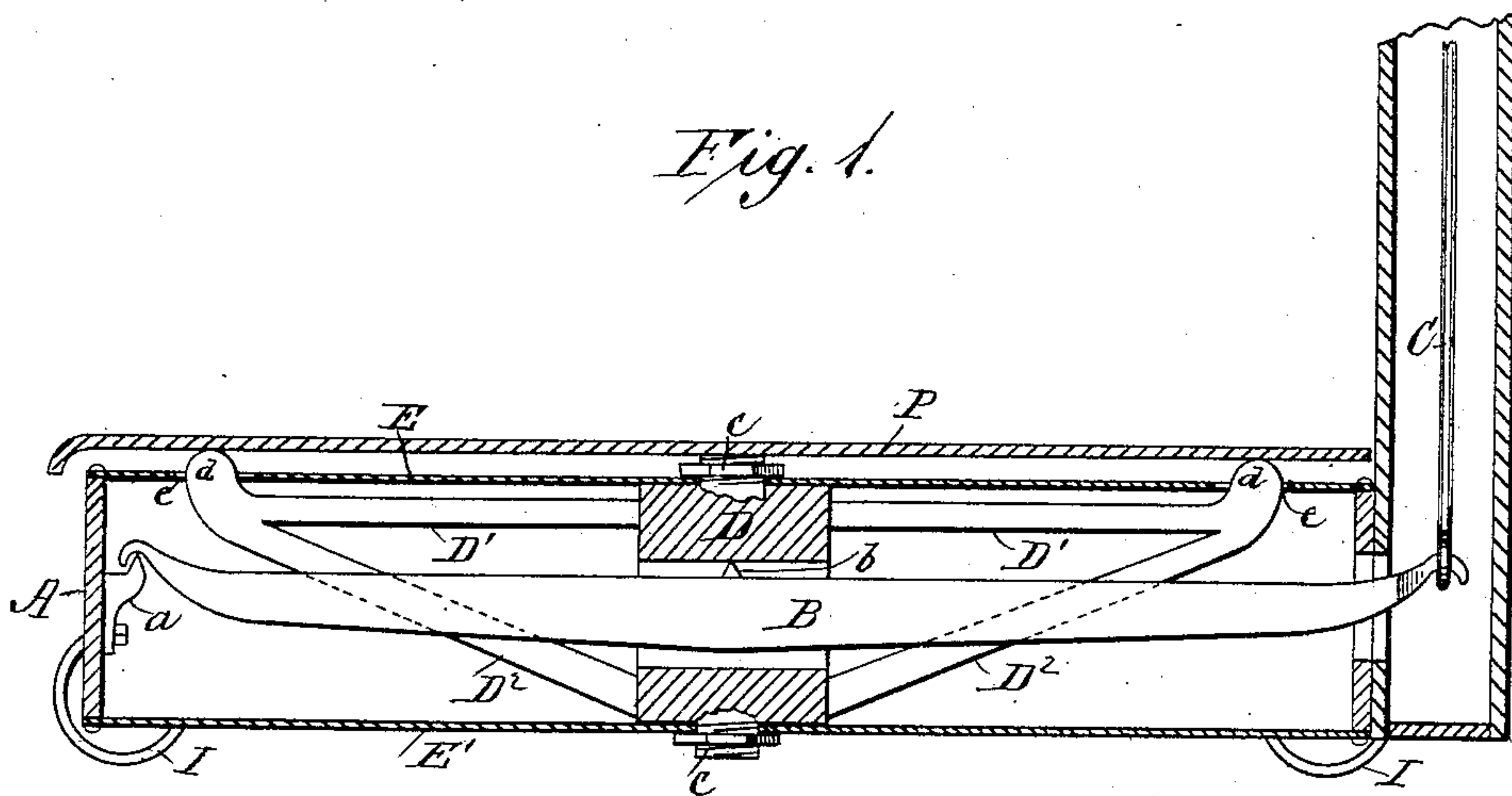
G. W. CRAIG.

WEIGHING SCALE.

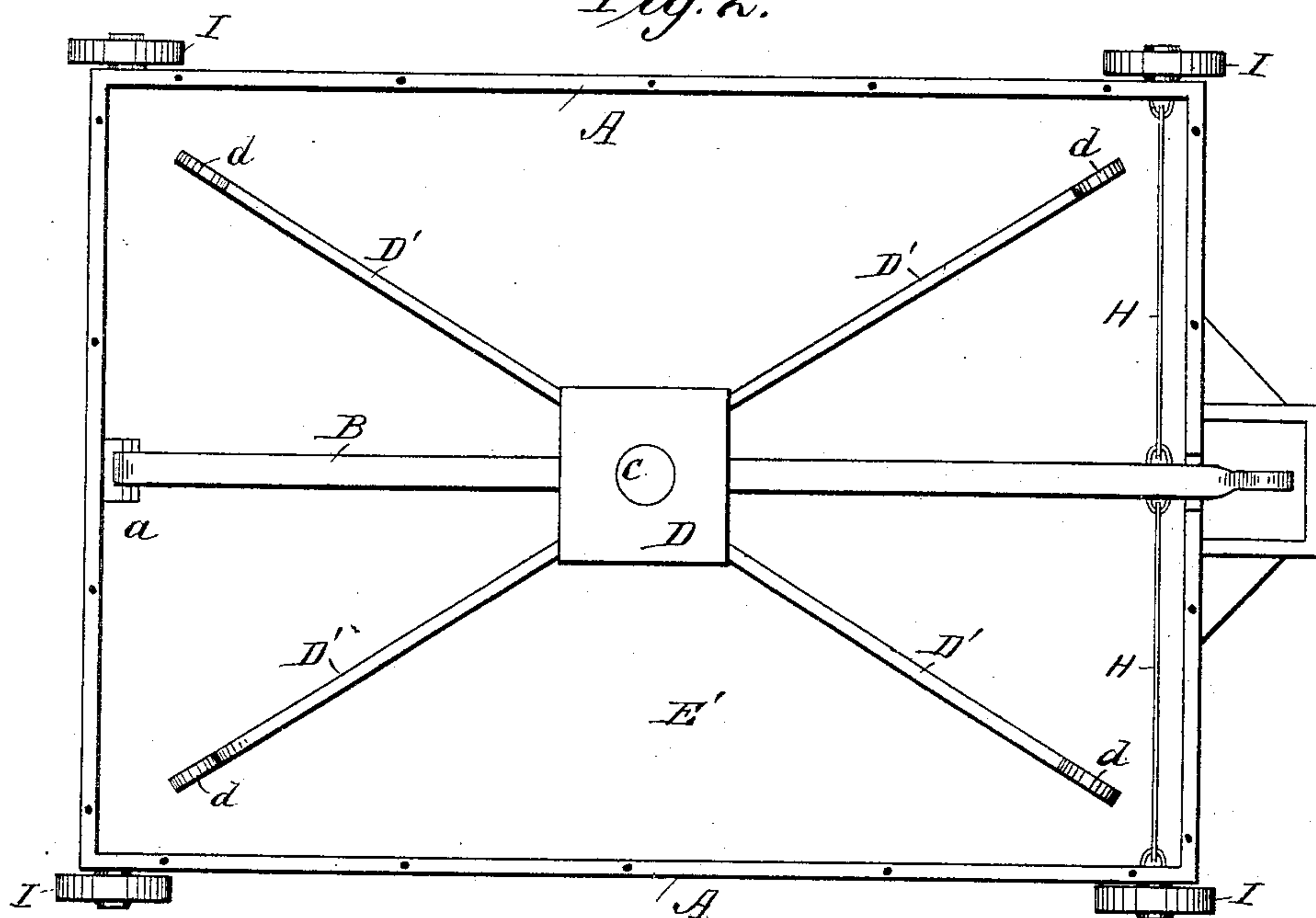
No. 336,472.

Patented Feb. 16, 1886.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE W. CRAIG, OF GRIMM'S LANDING, WEST VIRGINIA.

## WEIGHING-SCALE.

SPECIFICATION forming part of Letters Patent No. 336,472, dated February 16, 1886.

Application filed November 4, 1885. Serial No. 181,851. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. CRAIG, of Grimm's Landing, in the county of Mason and State of West Virginia, have invented a new and useful Improvement in Platform-Scales, of which the following is a description.

Figure 1 is a vertical longitudinal central section of the platform and lower casing; and Fig. 2 is a plan view of the same with the table and upper flexible cover removed, showing the lever and table-support within.

The object of my invention is to provide a cheap, durable, simple, and accurate construction of platform-scales; and it consists, chiefly, in the combination, with the platform-box, of flexible top and bottom and a single lever and bearing upon which is supported a frame that rests upon said lever, and is prevented from tilting or moving sidewise by the flexible top and bottom, but which is permitted to move up and down with the lever by the flexibility of the top and bottom sections, as hereinafter fully described.

In the drawings, A represents the rectangular box-casing of the platform-scales. Upon a support, *a*, at one end of this box-casing is held one end of the single lever B, the other end of which projects through a slot in the box-casing and is attached to the vertical rod C, that extends up to the scale-beam and fastens thereto. On the single lever, and resting upon the chisel-edge or pivot lug *b*, is a peculiar cast-iron supporting-frame, D D' D<sup>2</sup>, that sustains in turn the weighing-table surface or platform P, upon which objects are to be placed to be weighed. This frame consists of a short vertical standard, D, which has a hole through it to receive the lever B, and which frame is formed with four radially-projecting arms, D', each braced by an arm, D<sup>2</sup>, running from the outer end of arm D' to the lower end of the standard D. The top and bottom ends of this standard are formed with screw-stems *c c*, that pass through the flexible sheet-metal top and bottom sections E E', which latter are fastened to the edges of the box-casing. The upturned outer ends, *d*, of the arms D' are also arranged to pass through holes *e*, near the four corners of the platform, and these upturned ends with the stems *c* form a five-point support, upon

which rests the weighing-table P. On the tenons *c*, above and below the flexible sheets, are secured flat nuts that hold the frame D D' securely to these sheets, the object of which latter is to permit a free up-and-down movement without any lateral displacement of frame D D', thus enabling me to balance this frame upon a single lever with a single bearing, which greatly simplifies and cheapens the construction of the scales.

H H are two small jointed rods (one on each side of the lever) which extend to the outer casing and prevent the lateral vibration of the lever in horizontal direction.

I are the supporting-wheels of the box-casing, which permit the scales to be readily moved.

Having thus described my invention, what I claim as new is—

1. In a scale, the combination of a casing provided with flexible sheet-metal top and bottom and the weighing lever and table supports connected rigidly to said flexible sheets and moving with the same, as and for the purpose described.

2. A scale comprising a box-casing with a flexible top and bottom, a single lever attached or supported upon the box-casing at one end and connected to the scale-beam rod at the other, and a single frame mounted upon this lever and connected at top and bottom, respectively, to the flexible top and bottom sheets, substantially as and for the purpose described.

3. The combination of the box-casing having a flexible sheet-metal top and bottom, the single lever B, hung at one end upon a projection from the casing and connected at the other to the scale-beam rod, and the single frame consisting of vertical standard D, with a hole through it to receive the lever B, and connected at top and bottom to the flexible sheet at top and bottom, and provided with radial arms D' D<sup>2</sup>, substantially as and for the purpose described.

GEORGE W. CRAIG.

Witnesses:

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