E. S. FARGO.

PLATFORM SCALE.

No. 40,337. Patented Oct. 20, 1863.

Fig. 1.

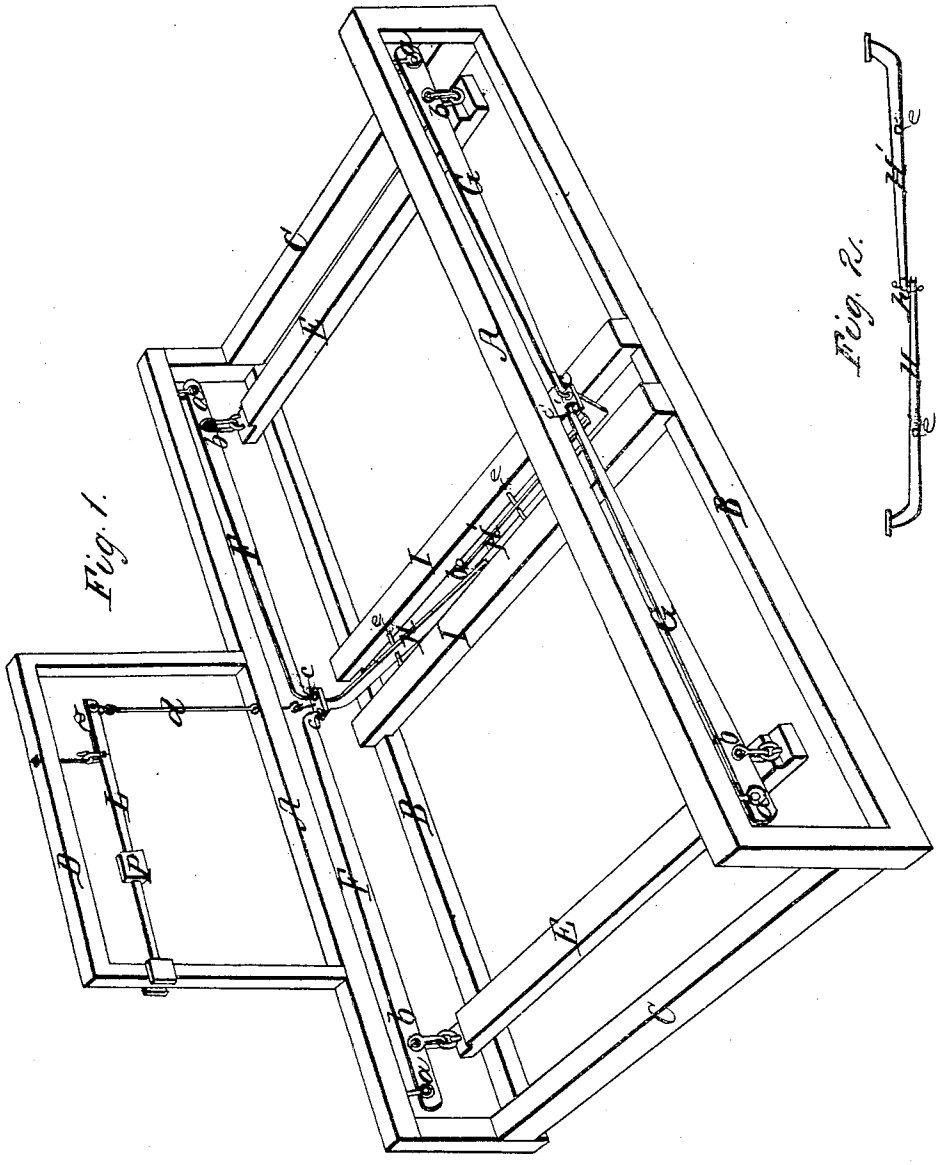

Fig. 2.

Witnesses;
W. E. Mann
J. M. Fargo

Inventor;
Edward S. Fargo.

UNITED STATES PATENT OFFICE.

EDWARD S. FARGO, OF DIXON, ILLINOIS.

IMPROVEMENT IN PLATFORM-SCALES.

Specification forming part of Letters Patent No. **40,337**, dated October 20, 1863.

To all whom it may concern:

Be it known that I, EDWARD S. FARGO, of Dixon, in the county of Lee and State of Illinois, have invented a certain new and useful Improvement in Platform-Scales; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and the letters and figures of reference marked thereon, which form part of this specification.

In the aforesaid drawings, which are hereunto annexed, Figure 1 represents a perspective view of my invention with the casing and weighing-platform removed, so as to disclose the interior arrangement, wherein my invention consists; and Fig. 2 shows a separate view of the jointed or double lever H H, which supports the ends of the levers F and G.

The nature of my invention consists in a novel and simple combination and arrangement of the levers of a platform-scale which is very cheap and easy of construction, durable, and accurate in weighing, and which, when properly balanced, are always ready for use, whatever may be the weight of the levers or the platform thereon, without the necessity of adjusting the said levers and platform to a certain requisite weight, as is the case with some platform scales upon which my invention is an improvement.

To enable others skilled in the art to understand how to construct and make use of my invention, I will proceed to describe it with particularity.

A B C D represent the frame-work of the scales, and are constructed of timbers of suitable size and arranged substantially as shown.

E E represent the pendent supports or beams upon which the weighing-platform rests, and are attached to the levers F and G at the points *b* upon suitable bearings and by suitable connections, as shown in the drawings.

I I represent two bars, arranged on each side of the transverse jointed lever H H′, to provide suitable bearings or supports for the fulcrum-rods *e e* of the said levers H H′.

The levers F and G all have their fulcrums at one end, being suspended at the points *a* from the beams A A of the frame, while the weight rests upon said levers at the points *b*, between the fulcrum *a* and the power, which is indicated by the poise P upon the scale-beam L, and which operates upon said levers F by means of the rod *d* at the points *c*, and simultaneously by the further means of the jointed or double levers H H′ upon the levers G at the points *c*′. The interior ends of the levers F and G, which rest upon the outer ends of the levers H H′, are curved down and pointed, which pointed ends rest in small holes or indentations in the upper surface of the levers H H′, or they may be connected by any other suitable bearings, so that they are operated in substantially the same way. By this arrangement of the various levers it will readily be seen that, when the power P begins to weigh down the scale-beam L, thereby drawing up the rod *d*, it operates directly upon the levers F, and so acts upon the weight resting upon the beams E E. In the same manner and at the same time the end of the lever H, to which said rod *d* is attached, is drawn up and the two jointed ends of the levers H H′ pressed down, thereby causing the outer end of H′, to which the levers G are connected, to rise, thus operating upon the levers G simultaneously with F, in the same manner and with the same effect. Thus, by this arrangement, upon whatever part of the platform, which rests upon the hanging beams E E, the article to be weighed is placed, it equally and instantaneously affects the scale-beam L, thus insuring perfect accuracy in weighing.

The relative lengths of the long and short arms of the different levers may be so proportioned as to adapt the scale to any required capacity, and when the platform is required to be of great length and to weigh great or very heavy articles, the levers F and G may, instead of being a single beam or bar of wood or metal, be compounded of several, two or more, that their aggregate effect shall operate upon the transverse levers H H′ in substantially the same way and with the same effect as herein described.

Having thus described my improved platform-scale, I will proceed to specify what I claim as new therein and desire to secure by Letters Patent.

The combination and arrangement of the levers F F G G with the double or jointed levers H H′, the rod *d*, and scale-beam L, all arranged and operating substantially as and for the purposes herein delineated and described.

EDWARD S. FARGO.

Witnesses:
W. E. MARRS,
S. M. FARGO.