

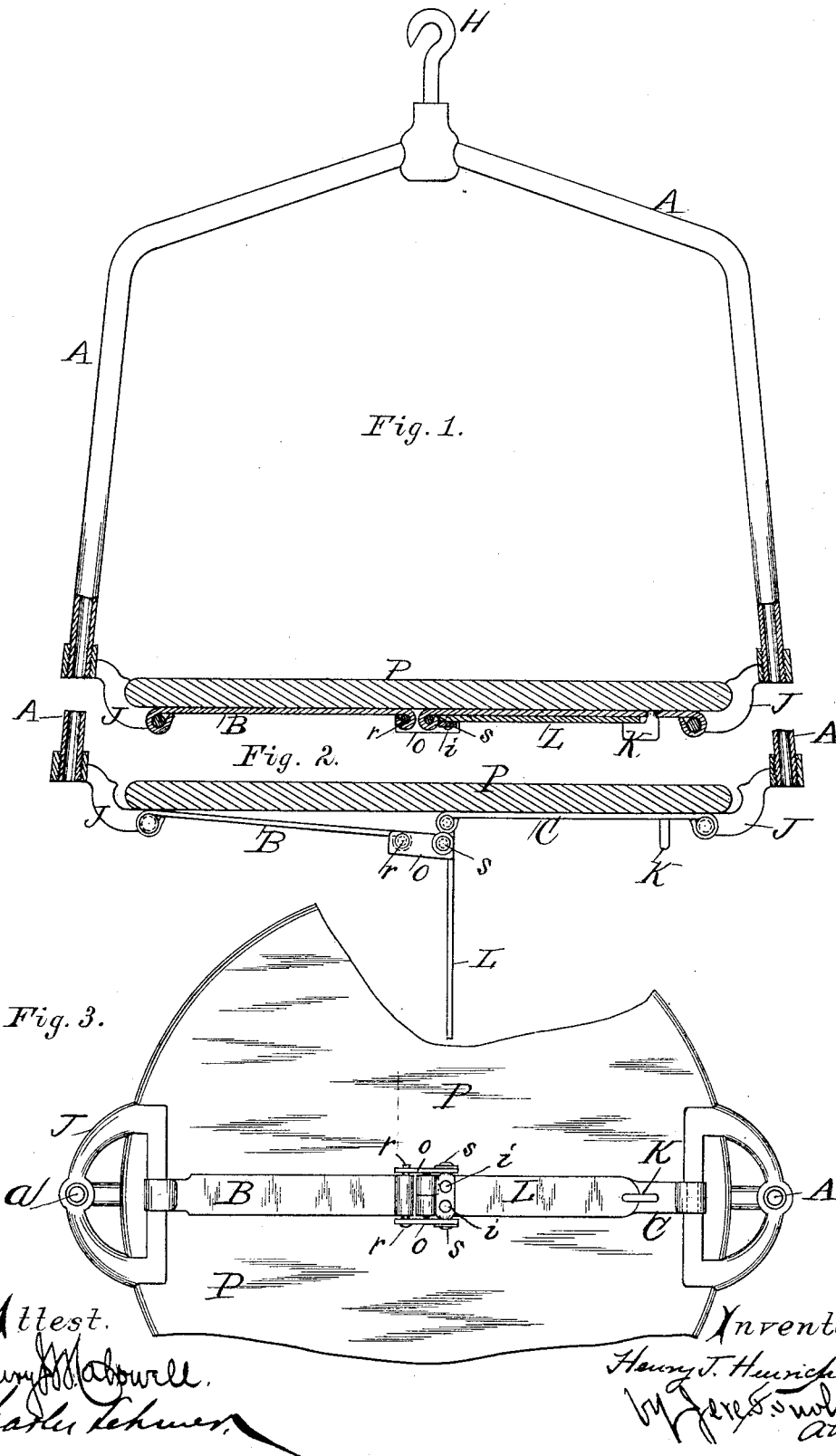
(No Model.)

H. J. HENRICHSON.

SCALE PAN.

No. 384,256.

Patented June 12, 1888.



UNITED STATES PATENT OFFICE.

HENRY J. HENRICHSON, OF CINCINNATI, OHIO.

SCALE-PAN.

SPECIFICATION forming part of Letters Patent No. 384,256, dated June 12, 1888.

Application filed January 28, 1888. Serial No. 262,218. (No model.)

To all whom it may concern:

Be it known that I, HENRY J. HENRICHSON, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement in Scales, of which the following is a specification.

My invention relates to scales for weighing, but more particularly to the manner in which the plate which holds the article to be weighed is held and firmly retained in the scale-bow or released therefrom.

The features of my improvement will be understood from the description hereinafter given, and by reference to the accompanying drawings, forming part of my application, in which—

Figure 1 is an elevation of the scale-bow which is hung to the balancing-beam, the lower portion of the figure being in cross-section, showing the plate locked between the jaws of the bow. Fig. 2 is a cross section taken through the lower portion of the bow, and shows the plate resting between the jaws of the bow, but unlocked. Fig. 3 is a bottom view of Fig. 1, and shows the plate locked as in said figure.

A represents the bow, and J the jaws thereof which hold the plate P. This plate may be of any suitable material, marble being preferred. Attached to the jaws J, respectively, are levers B C. To the latter lever, C, in the form of a hinge, is joined the lever L. To the inner end of lever B, and on each side thereof, are loosely attached, by means of a rivet, *r*, or its equivalent, link-plates *o o*, which in turn are likewise loosely fastened at their other ends by rivet *s* to lever L at a point which is below the hinge formed by the union of said lever L and horizontal lever C.

K is the swiveled keeper fastened in the lever C, and it subserves the purpose of retaining the lever L when it is desired to lock the plate within the jaws of bow A. The hook H is for the purpose of hanging the bow A to the scale balance or beam.

Having described in detail the various parts, I will now explain the manner in which the plate P is rigidly clamped and retained between the jaws of the bow. The plate is placed within the jaws, as shown in Fig. 2, after which the lever L is forced up toward lever C. This will cause an eccentric movement of hinged

levers L and C by reason of the connection indicated heretofore—viz., at point *s*, the rivet at that point being rigidly attached to lever L by small rivets *i i*. The result will be that both levers are drawn inwardly, and as lever L is forced up this draw will continue until the limit is reached, when the keeper K is applied to said lever L, holding it firmly, as shown in Figs. 1 and 3. The plate is thus firmly clamped, and the bow A can be hung on the balance-beam and the scale made ready for use. To remove the plate the keeper is disengaged from lever L. This loosens the jaws of the bow, enabling the plate to be released. In other words, by reason of the elasticity of the bow A, the space between the jaws J can be enlarged or contracted through the medium of said levers, and as a consequence of this enlargement or contraction the plate P is held between or released from the jaws J, as described.

What I therefore claim, and desire to secure by Letters Patent, is—

1. In a scale, the rigid bow A, provided with hook H and jaws J for the reception of plate P, in combination with draw-levers B C, connecting plates *o o*, and eccentrically-joined lever L, whereby the plate P is clamped or released, as desired, substantially as shown and described.

2. In a scale, the rigid bow A, its jaws J and hook H, in combination with levers B C, connected together through the instrumentality of links *o o* and eccentrically-hinged lever L, in conjunction with keeper K, substantially as shown and described, and for the purposes specified.

3. The rigid bow A, its retaining-jaws J and hanging hook H, in combination with draw-levers B C, connected together through the instrumentality of links *o o*, and operating-lever L, which is hinged to lever C, and fulcrumed between said links below the said hinge, whereby an eccentric movement is effected, in conjunction with keeper K, properly secured, all substantially as shown and described, and for the purpose noted.

HENRY J. HENRICHSON.

Witnesses:

CHARLES LEHMER,
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