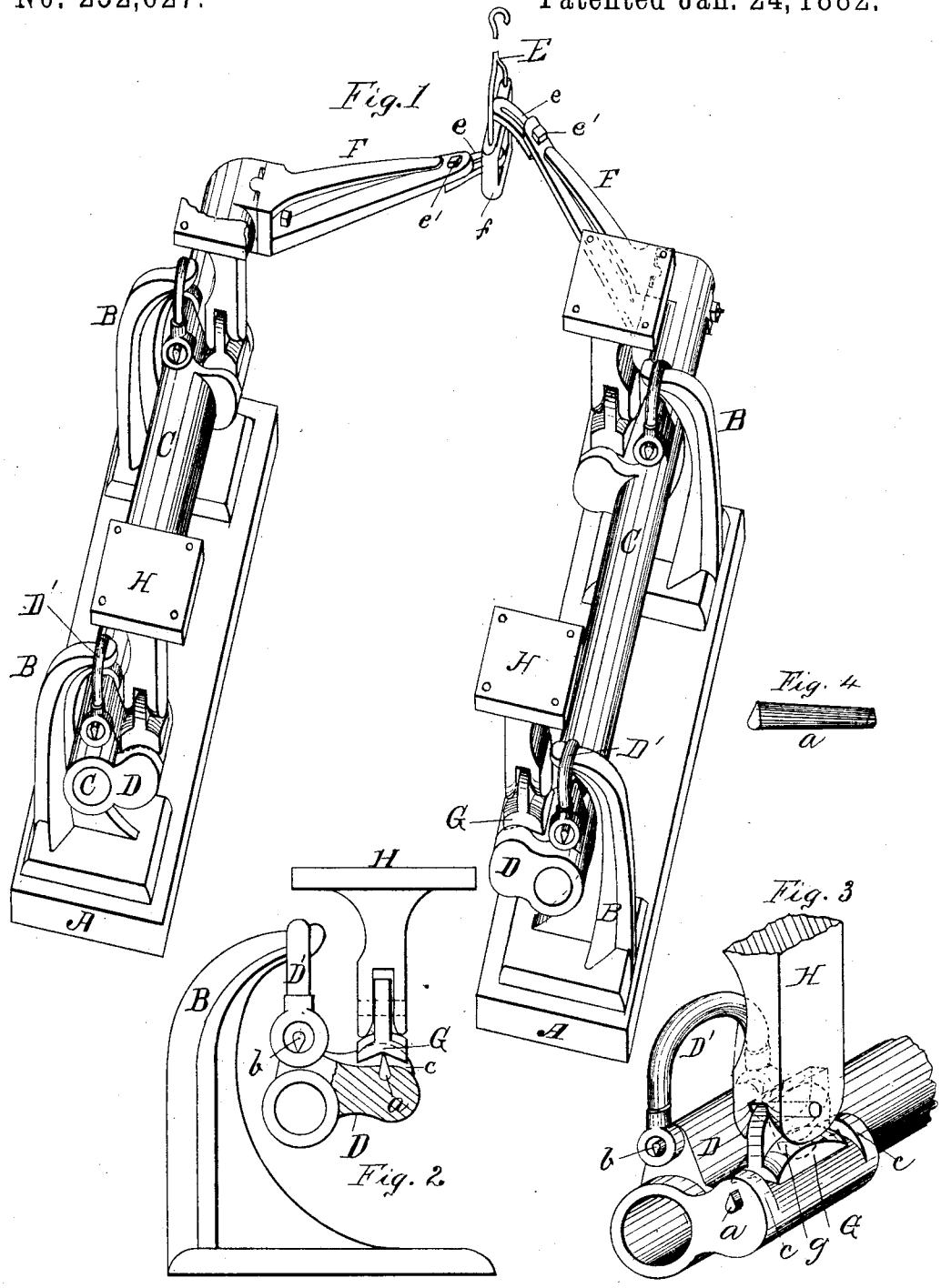
(No Model.)

W. E. SELLECK.

SCALE PLATFORM SUPPORT.

No. 252,627. Patented Jan. 24, 1882.



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SCALE-PLATFORM SUPPORT.

SPECIFICATION forming part of Letters Patent No. 252,627, dated January 24, 1882.

Application filed April 25, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. SELLECK, a citizen of the United States, residing in Chicago, county of Cook, and State of Illinois, have invented a new and useful Platform-Scale, of which the following is a specification.

My invention relates to improvements in scales in which the platform supporting the articles to be weighed is suspended from brackets secured to the sills of a structure supported upon the side or end walls, or both, of the pit or well, and forming a surrounding stationary frame for the scales-platform, and to scales in which the bearings fulcrumed upon the inner knife-edges are pivoted to T-brackets supporting the platform, so that the weight of the platform and the T-brackets not only rests upon the pivot of said bearings, but said platform and brackets are not limited in their horizontal play except by the surrounding structure. As the surrounding structure referred to is necessarily but slightly removed from the scale-platform, it will be understood that if, by reason of the concussion against the frame of heavy articles in placing them on the platform, or by frequent freezing and thawing of the ground or masonry supporting the frame, said frame should become twisted or slightly removed from its position relative to the platform, the platform would consequently bind or be thrown out of plumb and the accuracy of the scale destroyed.

The objects of my invention are to overcome these objections by first suspending the scale-platform independently of the surrounding structure in such a manner that it will be firmly supported and its longitudinal play limited by the suspending mechanism, so that its free movement and effectiveness will not be disturbed or destroyed by any slight variation of its supporting mechanism, as of the surrounding structure; second, to connect the T-brackets to their T-bearings in such a manner that the T-brackets will rest and move upon said bearings without destroying their free pivoted movement; and, finally, to have the T-bearings self-adjustable upon the knife-edges. I attain these objects by mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective of that portion of a platform-scale which embodies my invention, and having the platform removed; Fig. 2, a detail end elevation with one of the flanges of the L-lever removed to show the seat holding the knife-edge; Fig. 3, a detail perspective, showing the relative position of the T-bracket, the T-bearing, and L-lever to each other and to the yoke and pipe; and Fig. 4, a perspective of one of the knife-edges.

Similar letters of reference indicate the same parts in the several figures of the drawings, in which—

A A represent ordinary sills resting upon the bottom of the pit or well of the scales, and supporting goose-necks B, having broad bases to provide means for rigidly securing the goose-necks to the sills by bolts, screws, or other suitable devices.

C C are pipes or rods secured to L-levers D, the outer knife-edges, *b*, of which have their bearings in eyes in an ordinary yoke, D′, suspended on hooks at the upper end of the goose-necks, said pipes being connected by arms F F to a stirrup on the end of a forked scale-rod, E, by means of slotted plates *e e* and set-screws *e′ e′*, whereby said arms may be adjusted so that their bearing on the yoke will be equalized.

The L-shaped levers D are provided with an inner knife-edge, *a*, and with an outer knife-edge, *b*, which are tapering, as shown in Fig. 4, so that whether the levers are cast about them or the knife-edges are driven into suitable recesses in the levers said knife-edges may be forced out to be replaced by new ones when worn out. The inner arms of these levers are also provided with flanges *c c* upon their sides, as shown in Figs. 2 and 3, which serve to prevent the T-bearings G from having a longitudinal or sliding movement along their respective knife-edges. The T-bearings G are rounded or convexed on their upper faces, *g g*, and their vertical arms are pivoted to the T-brackets H, which support the scale-platform. The under faces of the T-brackets are V-shaped, and rest upon the knife-edges *a*, so that their ends are below the upper edges of the flanges *c c*, and by this means the bracket, while free to work upon the knife-edge, is prevented from having the longitudinal movement above referred to.

The lower end of the bracket-supports H are rounded, and the brackets and T-bearings are pivoted together, so that the rounded end of

the bracket may rest and rock upon the convexed surface of the bearing, and thereby entirely relieve the pivot from any strain, and at the same time permit said brackets to move upon each other without causing any sensible friction, as well as to cause the bearing to adjust itself upon the knife-edge.

It will now be seen that by suspending the platform from goose-necks secured to and supported on the bottom of the well the surrounding frame will not, unless very materially moved, destroy the free movement of the platform; nor will the freezing or thawing of the ground destroy the effectiveness or accuracy, for the reason that the connections between the goose-neck and the platform will permit the scales to avoid any ordinary inaccuracy in the position of the beams.

By providing the inner arms of the L-levers with flanges rising upon their sides above the inner knife-edges the platform will not be enabled, when receiving heavy loads, to swing against and loosen the surrounding frame from its base support.

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

1. The scale-platform, the T-bracket, the T-bearings, and swinging lever provided with knife-edges *a* and *b*, in combination with the swinging rod, substantially as and for the purpose described.

2. In platform-scales, the combination of a goose-neck and yoke provided with eyes, and a swinging lever provided with knife-edges *a* and *b*, said knife-edges resting in the eyes of said yoke, substantially as and for the purpose hereinbefore described and set forth.

3. The combination, with a scale-platform, of a swing-lever provided with side flanges, and of a T-bracket pivoted to said platform and adapted to operate between these flanges, substantially as and for the purpose described.

4. The combination, with the bracket H, supporting the platform, and with the knife-edge *a*, of a T-bracket resting upon the knife-edge and provided with a convex bearing-surface supporting the bracket H, and operating substantially as described.

5. The bracket G, in combination with the swinging L-shaped lever provided with the knife edge *a* and side flanges, *c c*, rising above the bearing-face of the bracket G upon the knife-edges, substantially as described.

6. The combination, with a scale-platform and with the bracket H, pivoted to the T-bracket and provided with a rounded end, of a T-bracket operating upon a knife-edge and provided with a convex face engaging with the bracket H, substantially as and for the purpose described.

WILLIAM E. SELLECK.

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