A. B. PEARSON.
Platform-Scales.

No. 200,406. Patented Feb. 19, 1878.

FIG. 4.

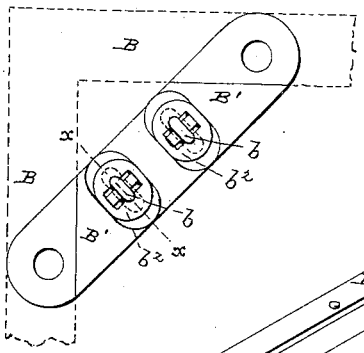


FIG. 1.

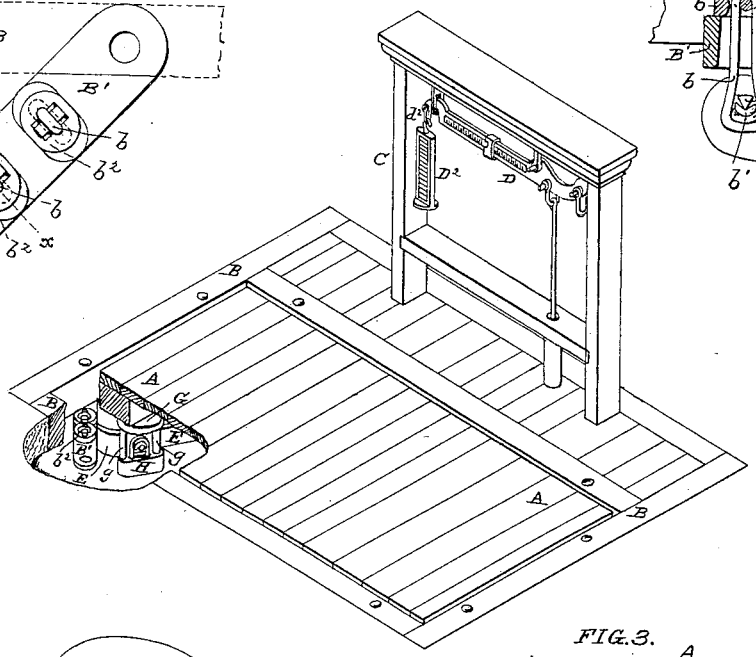


FIG. 5.

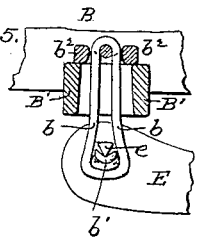


FIG. 2.

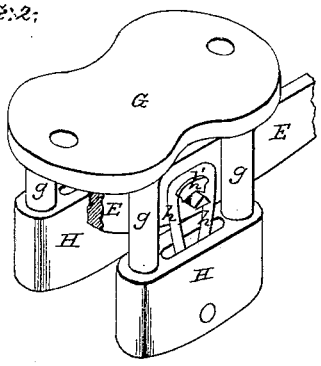
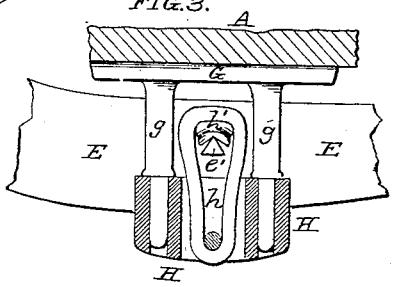


FIG. 3.



ATTEST:

Robert Burns
J. H. Thomas

INVENTOR:

Alonzo B. Pearson.

UNITED STATES PATENT OFFICE.

ALONZO B. PEARSON, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN PLATFORM-SCALES.

Specification forming part of Letters Patent No. **200,406**, dated February 19, 1878; application filed August 3, 1877.

To all whom it may concern:

Be it known that I, ALONZO B. PEARSON, of the city of St. Louis, State of Missouri, have invented certain Improvements in Scales, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The first part of my improvement relates to the mode of connecting the platform to the scale-levers; and consists in providing the table-plates that are secured to the platform-timbers with two or more downwardly-projecting legs, which rest in a dependent bearing-block, having link-connection with a chilled saddle-piece, that rests on the knife-edges of the levers of the scale, as will hereinafter more fully appear.

The second part of my improvement relates to the manner of pivoting the scale-levers to the frame of the scale, so as to allow them to be horizontally adjusted toward the beam-rod to which they are secured. In this the saddle-links that support the knife-edges of the levers pass through elongated slots in the supporting cross-piece, and are provided with sliding washers at top, so as to allow the lever to be moved horizontally within a limited distance.

In the drawings, Figure 1 is a perspective view, with one corner broken away to show improvements. Fig. 2 is detail perspective view of the means of supporting the corners of the platform on the scale-levers. Fig. 3 is a side view, partly in section, of the same. Fig. 4 is a top plan of the mode of operating the levers to the frame of the scale. Fig. 5 is a section of the same at line *x x*.

A is the platform of the scale. B is the surrounding frame, to which is secured the housing C, that supports the scale-beam D. E are the scale-levers, on which the platform rests. These levers are pivoted to the corners of the frame B, and extend to the beam-rod D′, and are attached thereto in the usual manner. The levers E are pivoted to the frame B by links *b* at each side, which carry chilled saddle-pieces b^1, on which the knife-edge pivot *e* of the lever E rests. These links *b* pass up through elongated slots in the cross-pieces B′, and are secured to the sliding washers b^2, as shown, so as to allow a limited horizontal motion of the levers E, to enable them to be adjusted toward the beam-rod D′. G are the table-plates, one of which is secured to each corner of the platform A. These plates have legs *g*, that rest in sockets in bearing-block H, which has a pivoted link, *h*, which passes over the saddle-piece *h′*, that rests on the knife-edge *e′* of the lever E. These saddle-pieces b^1 and *h′* are preferably formed of chilled iron or steel.

It is evident that in smaller scales it will answer the purpose to make the table-piece G with two legs, *g*, that rest in a single bearing-block, H, placed at one side of scale-lever E; but in the large scales it is preferable to use four legs, *g*, so as to straddle the scale-levers E, and bear evenly on each side of the same.

My improvements allow the requisite freedom of movement of the platform without any wear or strain on the knife-edge pivots. Also, owing to the compactness of parts derived from my improved construction, a much shallower excavation is required than with the ordinary construction of platform-scales.

I claim as my invention—

1. The table-plate G, having legs *g*, resting in bearing-block H, having link-connection with the knife-edge *e′* of the scale-lever E, substantially as and for the purpose set forth.

2. The scale-lever E, pivoted to the frame B by links *b* passing through elongated slots in the cross-piece B′, and secured to sliding washers b^2, substantially as and for the purpose set forth.

ALONZO B. PEARSON.

Witnesses:
ROBERT BURNS,
J. H. THOMAS.