

H. B. OSGOOD.
PLATFORM-SCALES.

No. 182,034.

Patented Sept. 12, 1876.

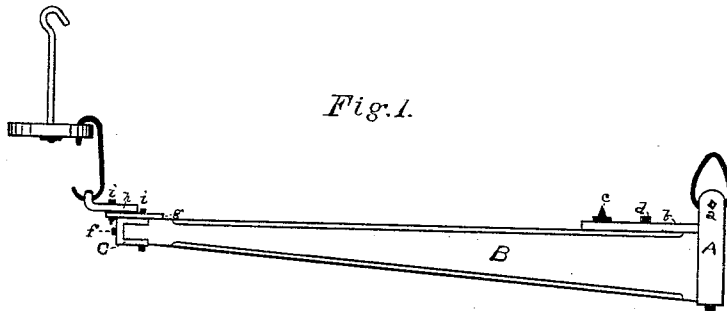


Fig. 1.

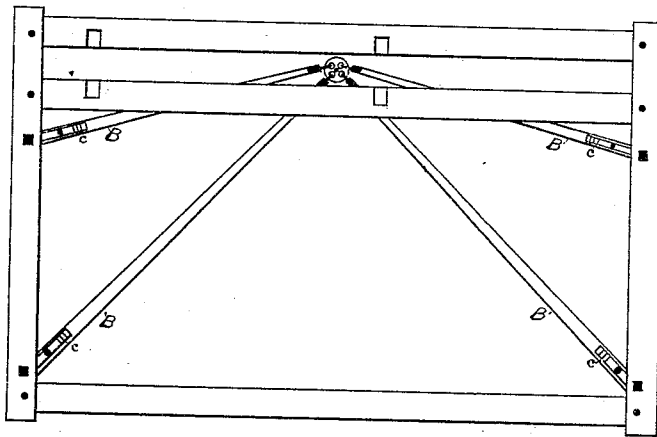


Fig. 3.

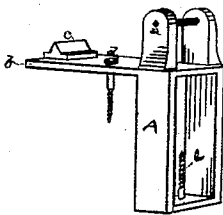


Fig. 4.

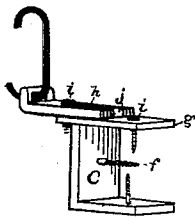


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

HORATIO B. OSGOOD, OF BINGHAMTON, NEW YORK.

IMPROVEMENT IN PLATFORM-SCALES.

Specification forming part of Letters Patent No. **182,034**, dated September 12, 1876; application filed March 29, 1876.

To all whom it may concern:

Be it known that I, HORATIO B. OSGOOD, of Binghamton, in the county of Broome and State of New York, have invented a new and useful Improvement in Platform-Scales, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

My invention consists in the construction and combination of stirrup and socket knife-edged bearings and wooden scale-levers, in such a manner that said stirrups may be accurately adjusted before their attachment to the lever, and attached either at the manufactory or at the location for use.

The object of the invention is to diminish the expense of construction, and for heavy scales to lessen the expense of transportation; also, to facilitate repairs and adjustment of the lever when required without its removal to the shop.

Figure 1 in the accompanying drawings is a view of a lever embodying my invention, showing the scale-beam connection. Fig. 2 represents the frame of the platform in position, showing the levers and their connections. Fig. 3 is the fulcrum band-stirrup, and Fig. 4 the scale-beam-socket stirrup detached. Fig. 5 is the gage for adjusting the stirrups to their relative positions on the levers.

A is the band on fulcrum-stirrup, which is made in one piece to fit the large end of the lever B. From the upper section of this band there are vertical projections *a*, which support the knife-edged loop-pivot, and from those projections there is a longitudinal extension, *b*, which bears upon the upper face of the lever B. Near the end of this extension is attached the lever-fulcrum *c*. The stirrup A is secured to the lever by a screw-bolt, *d*, through the extension *b*, and another bolt, *e*, through the lower section of the band. C is the socket-stirrup, which is attached to the free end of the lever connecting with the scale-beam, and is secured in position by a screw-bolt, *f*, through a hole in the inclosed end of the sock-

et, on the top of which is a projecting bearing, *g*, for the adjustable poise-slide *h*, which is secured in position by screw-bolts *i* through the slot *j* into screw-holes in the bearing *g*. This slide is adjusted to the required position at the manufactory before the socket is attached to the lever, which is made the required length and size for fitting the band and socket stirrups, so that they may be attached and adjusted either at the shop or at the place of use when the lever is scaled by moving the slide *h*. When the stirrups are attached, the socket C is first placed in position and secured, as described. The band-stirrup A is then attached and adjusted to its relative position by the use of the gage-bar E, which accompanies each scale.

For heavy scales, the lever B may be supplied at the place of use, thereby saving much expense in construction and transportation, as the ordinary iron levers for this class of scales comprise the principal weight.

I am aware that wooden levers have been used, having bearings made in separate parts on the ends of the lever, which require much time to adjust, and which are liable to derangement, and consequent inaccuracy in weighing. This I obviate by making the stirrups in one piece, which prevents the ends of the lever from checking, and secures its accuracy in operation.

I prefer the use of the gage-bar E to the ordinary measuring-rule on the account of the usual variations of different rules.

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

The combination of the detachable band-stirrup A, socket-stirrup C, with adjustable slide *h*, and lever B, constructed and arranged substantially as herein shown and described, for the purpose set forth.

HORATIO B. OSGOOD.

Witnesses:

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