

C. ONSLOW.  
Platform Weighing Scales.

No. 197,489.

Patented Nov. 27, 1877.

Fig. 1.

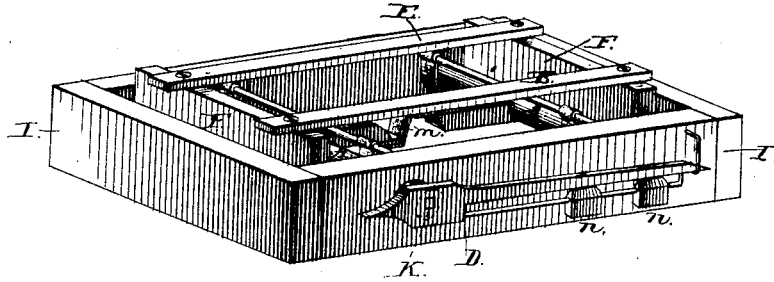
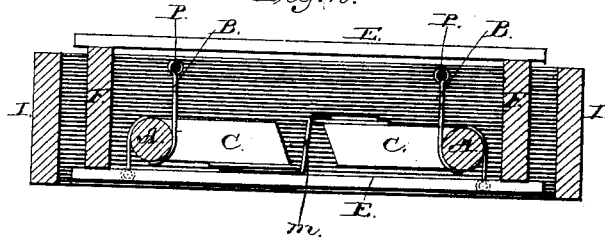


Fig. 2.



Attest:  
Burdett Torrance  
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Inventor:  
Charles Onslow

# UNITED STATES PATENT OFFICE.

CHARLES ONSLOW, OF PORT EWEN, NEW YORK.

## IMPROVEMENT IN PLATFORM WEIGHING-SCALES.

Specification forming part of Letters Patent No. **197,489**, dated November 27, 1877; application filed February 17, 1877.

*To all whom it may concern:*

Be it known that I, CHARLES ONSLOW, of Port Ewen, in the county of Ulster and State of New York, have invented a new and useful Improvement in Platform-Scales; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of platform-scales with the scale-beam on one side; and Fig. 2 is a transverse section of the same scale with outside case removed, and showing the rollers and bands.

This invention relates to an improved platform-scale in which rollers hung by flexible bands are used in such a manner that the weight of any article placed upon the platform can be balanced by the pea on the scale-beam, which is marked to indicate the weight of different articles.

This invention consists in the use of a round shaft or roller on each end of the scale, that are hung by thin metal bands to the frame-work of scales, while the platform of the scales is hung by similar bands to the same shafts or rollers, but on opposite sides from the bands that support or hold the shaft or rollers, in such a manner as to permit the shafts to revolve when sufficient weight is placed on the platform if they were not held by the scale-beam and pea.

In the drawings, letter I shows the frame-work of scales, letter D the scale-beam with the peas *n n*, letter E the platform, letter F an inside frame-work, letter B the bands, and the letters A A the rollers or shafts. The object of these rollers is, that being of the same diameter, any weight placed on the platform that is held by bands from one side of said rollers would cause the rollers to turn, as they

are held by similar flexible bands from their opposite sides, and their diameters being the same, a regular strain would be on the scale-beam D, which is made fast to the end of one of the rollers, so that any motion of said roller would be conveyed to the scale-beam.

The rollers are connected in the middle by arms C and their bands *m*, so that for any weight placed on any part of platform there will be the same strain on the rollers, and therefore the strain on the scale-beam will be regular.

The diameter of the rollers will always govern the leverage of the scales. If the shafts or rollers are the same in diameter where the bands pass over them, they may be made to vary between, if desired.

The object of the bands B is, that being flexible, the rollers will move easily, and thereby move the scale-beam.

The object of making the scale-beam act upon the side of the scale is merely its convenience, as it can be placed in other positions, if required.

The peas can be made to move for pounds or ounces, and the beam marked for either or both; or can move around, if required, as a pointer.

I claim as new and desire to secure by Letters Patent—

1. The rollers A, with the flexible bands on opposite sides.
2. The scale-beam attached to the end of one of the rollers, substantially as and for the purpose set forth.
3. The arms CC, that connect the rollers, and their connection at *m*, substantially as and for the purpose set forth.

CHARLES ONSLOW.

Witnesses:

BERDETT TERPINING,  
ROBT. BURNETT.