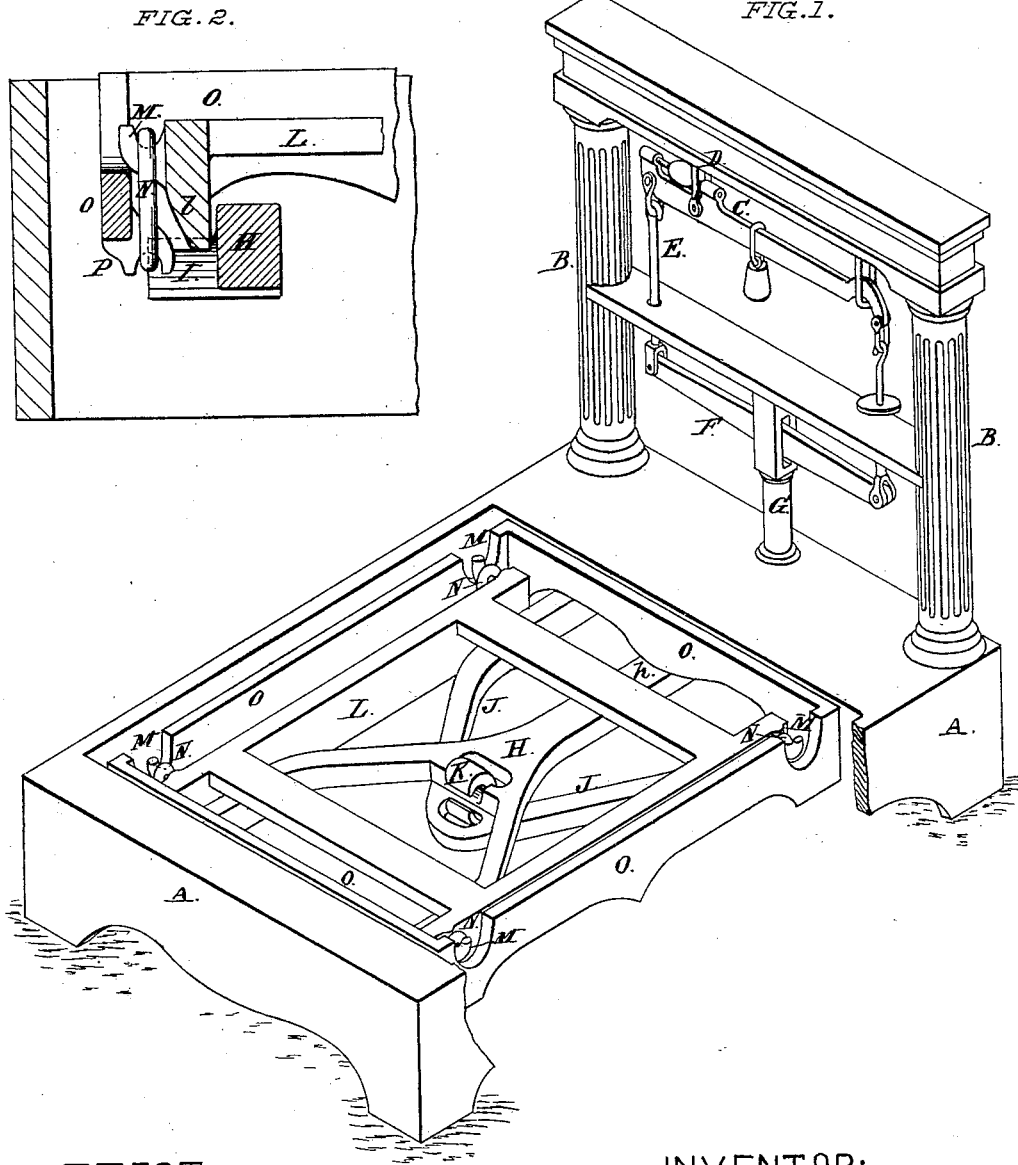


J. F. MILLIGAN.
Platform Weighing-Scale.

No. 207,762.

Patented Sept. 3, 1878.



ATTEST:

Geo. H. Knight.
Walter Allen

INVENTOR:

John F. Milligan
By Knight & Co.
Attys

UNITED STATES PATENT OFFICE.

JOHN F. MILLIGAN, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF HIS
RIGHT TO GEORGE S. FOSTER, OF SAME PLACE.

IMPROVEMENT IN PLATFORM WEIGHING-SCALES.

Specification forming part of Letters Patent No. 207,762, dated September 3, 1878; application filed
July 3, 1878.

To all whom it may concern:

Be it known that I, JOHN F. MILLIGAN, of the city of St. Louis, in the State of Missouri, have invented a new and useful Improvement in Platform-Scales, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My improvement relates to the device for giving to the platform a hanging support upon the knife-edge levers; and my invention consists in suspending the platform-frame upon links, which are hung upon horns at the corners of a four-sided frame resting upon the knife-edges.

In the drawings, Figure 1 is a perspective view, illustrating my invention, with the platform removed from the frame to which it is attached. Fig. 2 is an enlarged detail section, showing one of the swing-bearings.

A is the stand, having at one end the upright frame B, from which the scale-beam C is suspended by a hanger, D.

E is the link-rod, extending from the shorter end of the scale-beam to the free end of the lever F. The lever F passes through the link-rod G, which supports the free end *h* of the forked lever H, upon which are the knife-edges I, and the forked ends of the lever H have fulcrum-bearing upon the stand A, as usual. The other forked lever, J, is fulcrumed to the stand at the ends of the forked arms, and its free end is suspended from the middle of the lever H by a link-hook, K. Upon the lever J are the usual knife-edges.

The above-described parts have the usual construction, and, as no novelty is claimed in them, no particular description is required.

L is a frame, whose feet *l* rest upon the knife-edges I. At the corners of the frame L are horns M, upon which hang the links N.

O is a frame to which the platform-floor is attached. The frame O has forks or hooks P, which rest in the link N, so that the frame O is supported upon the frame L in such a manner as to be capable of vibrating motion independently of the frame L, as the two frames are not in contact at any part.

The frame O is shown as surrounding frame L, and this is my preferred construction; but the frame O may have a position over the frame L instead of outside it, and the feet P may be lengthened and have the required form to rest in the links N; or the horns M may extend upward, so that the links are suspended above the frame L, and the feet P may then extend horizontally from the frame O above the frame L, and thus the frame O may be supported above the frame L without essential change in the construction.

I claim as my invention—

The frame L, supported on knife-edges I, horns M at each corner of said frame, supporting-links N, and hooked frame O, supported on frame L by said links, substantially as set forth.

JOHN F. MILLIGAN.

In presence of—

SAML. KNIGHT,
GEO. H. KNIGHT.