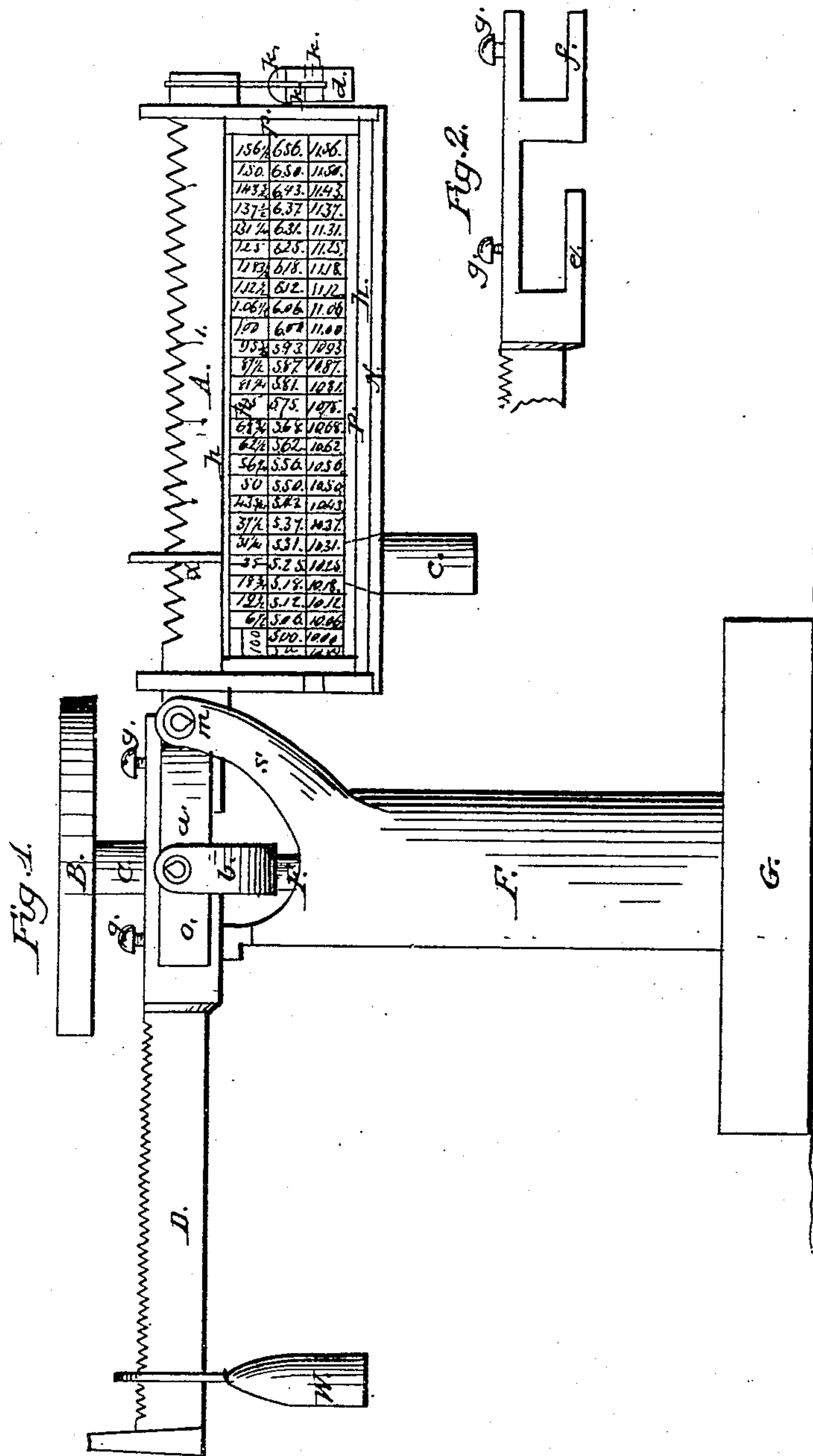


W. F. SWEET.
SCALE.

No. 94,925.

Patented Sept. 14, 1869.



Witnesses:
Geo. W. Rothwell
Phil. G. Larned

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United States Patent Office.

WILLIAM F. SWEET, OF JACKSON, PENNSYLVANIA.

Letters Patent No. 94,925, dated September 14, 1869.

IMPROVEMENT IN INDICATING-ATTACHMENT TO WEIGHING-SCALES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, WILLIAM F. SWEET, of Jackson, in the county of Tioga, and State of Pennsylvania, have invented a new and useful Improvement in Scales; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable others skilled in the art to which my invention appertains, to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is an elevation, and

Figure 2 is a detached view of the inner end of the balance-bar.

Similar letters indicate like parts in both figures.

My invention relates to improvements in scales; and consists in the employment of a book situated in a removable frame, which may be attached to any sway-beam, the pages of said book each containing a calendar of the prices at different rates per pound the article weighed will cost, the weight on the sway-bar pointing to the price in the calendar.

It further consists in the employment of a removable balance-bar, which may be attached to any scale provided with a sway-bar, as hereinafter more fully set forth.

In the accompanying drawings—

E is the hollow standard of the scales, its lower end resting on the platform G.

F is a rod, passing through the hollow standard and connecting the hopper-stand B with the ordinary lever employed at the foot of the standard.

The rod F is enlarged at its upper extremity O, and passes through a hole in the frame h.

o is a frame, pivoted at m to the arms S, on the standard E.

A is the sway-bar or beam, cast with the frame o.

By this arrangement of parts it will be seen that any weight placed on the hopper-stand will operate the sway-bar.

c is the sway-bar weight, having a pointer, x, on its extremity to indicate the price of the article weighed.

d is the rod, enlarged at its lower end for the reception of the ordinary slotted weights.

D is a removable balance bar, the inner end of which is constructed as seen in fig. 2, in which e and f are projecting arms, which fit over the frame o, and are attached securely to the said frame by the set-screws g g.

By this arrangement the balance-bar D can be removed from the scales, and can be applied to any scales having a sway-bar.

W is a weight on the balance-beam D.

h is a book, placed in a removable frame, N, attached to the sway-bar by set-screws, so that the

frame may be attached to any scales having a sway-bar.

The book is kept partially opened by a frame, p, resting on its edges and is attached by strings or otherwise to the frame N.

Each page of the book h is ruled vertically and horizontally, as seen in fig. 1.

The figures in the upper space, opposite the pointer x of the weight c, indicate the price of the article weighed, at the price per pound, which is shown in the upper left-hand corner of the page.

The figures in the second space opposite the pointer indicate in like manner the price when a five pound weight is attached to the end of the sway-beam.

The figures in the third space in like manner indicate the price when a ten pound weight is attached to the end of the sway-beam.

And spaces for figures may be added to the calendar for any weight attached to the outer end of the sway-beam.

The object of placing weights on the end of the sway-beam is to weigh greater weights than could be weighed without their use.

The pages resting on the bottom of the frame N give the prices for articles weighed on the platform, while the other pages indicate the prices for articles weighed on the sway-beam.

When the weight W is at the outer end of the balance-bar, and the weight c at the inner end of the sway-bar, the scales are balanced.

Having thus described my invention,

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

1. The application to the sway-beam of a scale, of a book, substantially as described, in such a manner that the weight, when the scales are balanced, shall indicate the cost of the article weighed at a specified price per pound.

2. The removable frame N, applied to the sway-beam of a scale for supporting the table or book h, substantially as herein described and shown.

3. The combination of the removable frames N and p, for supporting a book, h, and retaining it in an open position, substantially as described.

4. The removable balance-beam D, constructed substantially as described, and capable of application to any scale of the kind specified, for balancing the scales with a vessel thereon, which vessel is to contain the article purchased, before weighing the latter.

To the above, I have signed my name, this 30th day of March, 1869.

W. F. SWEET.

Witnesses:

GEO. W. ROTHWELL,
PHIL. F. LARNER.