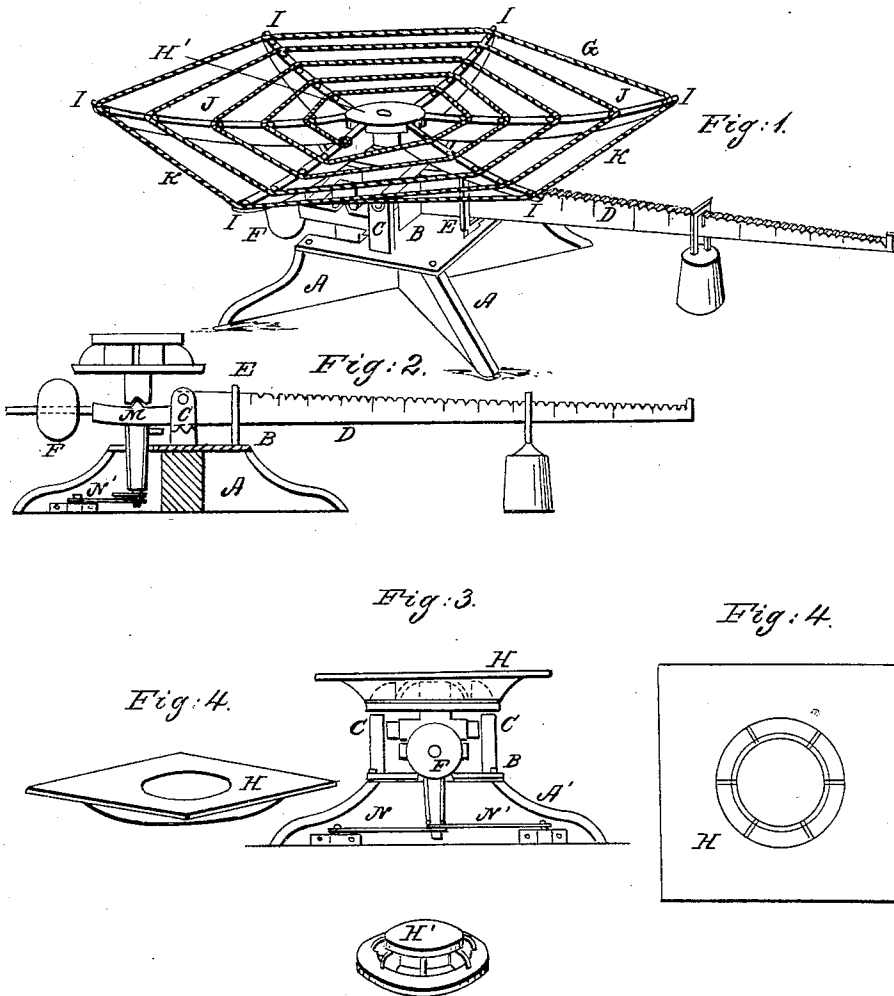


W. W. KELLY.

Balance Scales.

No. 25,203.

Patented Aug. 23, 1859.



Witnesses:
G. Brainerd
S. Muirhead

Inventor:
Walter W. Kelly

UNITED STATES PATENT OFFICE.

WALTER W. KELLY, OF REEDTOWN, OHIO.

SCALE.

Specification of Letters Patent No. 25,203, dated August 23, 1859.

To all whom it may concern:

Be it known that I, WALTER W. KELLY, of Reedtown, in the county of Seneca and State of Ohio, have invented new and useful Improvements in Portable Scales; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making
10 part of this specification, in which—

Figure 1 is a perspective view, Fig. 2 is a vertical section, Fig. 3 is a back view, and Fig. 4, is a view of sectional parts.

The nature of my invention consists in
15 such an arrangement and adaptation of the several parts, that the scale, while it is entirely portable, can be used for weighing bulky bodies, as hay, and other coarse fibrous substances, and at the same time can be readily converted into a common warehouse platform scale, for weighing more dense and less
20 bulky bodies, as grain, cheese, &c.

The foundation, or foot pieces, consist of two parts, A A. These cross each other at
25 right angles. For ordinary use, these pieces should be about three feet long and eight inches high. The top of these, when put together as seen in Fig. 1, should be covered with a plate of metal or wood, as seen at B, Figs. 1, 2 and 3. From this rise the two standards C C, which support the pivot of the scale beam, D. The guide E, serves to keep the scale beam from swaying to the right or left, or from rising too high, or falling
30 too low, when in use.

F, represents the adjusting weight, which moves upon a screw, attached to the back end of the beam D.

The rack G, and platform H, in Figs. 1
40 and 3, are so arranged as hereinafter described, that they can be easily detached, or replaced, for the purpose of weighing differ-

ent kinds of substances. The platform H is also shown in Fig. 4.

The rack is composed of arms I, I, I, &c., 45 which enter sockets in the center piece of the platform H' and upon these are placed at certain intervals, the pins J. These pins are provided with heads, and are placed at from six inches to eight inches apart. A cord K 50 is stretched around these from one arm to another, as seen in Fig. 1, and in this manner the rack is formed, for the convenience of weighing hay and like substances. This rack can be removed or replaced at pleasure. 55 Upon the removal of the rack I, J, the platform H can be placed over and upon the center piece H'. The whole weight of this rack and platform, and whatever is placed upon them, rests upon the back end of the 60 scale beam, which divides into two branches, and between which, the standard L passes.

A pivot M, upon each side of the standard L, forms the above named support. The lower end of the standard L, is secured to 65 two stays N N' which occupy the right angled recess between the foot pieces A A'. While these pieces allow the standard L to rise and fall without obstruction or hindrance, they serve to keep it in a vertical position, so that the downward pressure upon the beam, is both local and uniform. 70

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

The adjustable rack G and platform H, 75 constructed and arranged as described, in combination with the center piece H' upon which the rack and platform are placed, so that either one can be used at pleasure, in the manner specified.

WALTER W. KELLY.

Witnesses:

J. BRAINERD,
S. H. MARTIN.