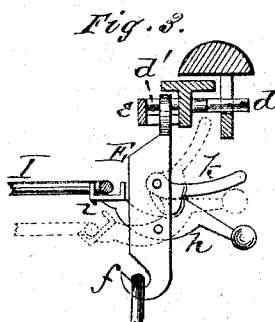
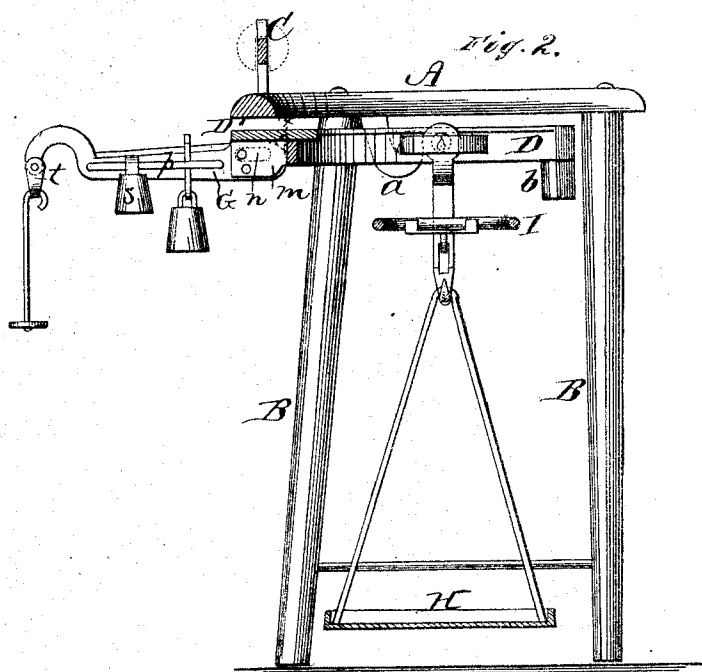
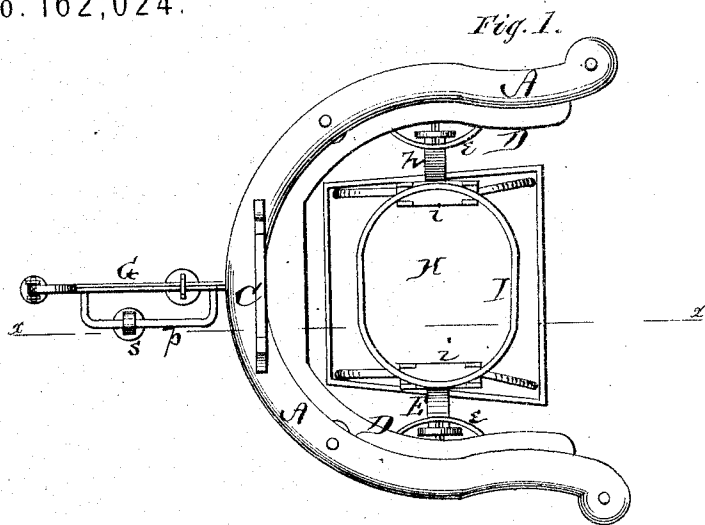


Scales:

No. 162,024.



P. C. Dietrich

W. C. McArthur,

Henry J. Bridge

per: J. H. Alexander
ATTORNEY.

UNITED STATES PATENT OFFICE.

HENRY T. BUDGE, OF CEDAR FALLS, IOWA.

IMPROVEMENT IN SCALES.

Specification forming part of Letters Patent No. **162,021**, dated April 13, 1875; application filed February 24, 1875.

To all whom it may concern :

Be it known that I, HENRY T. BUDGE, of Cedar Falls, in the county of Black Hawk and State of Iowa, have invented certain new and useful Improvements in Scales; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a scale designed more particularly for farmers' use, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a plan view of my scale. Fig. 2 is a section of the same through the line *x*, Fig. 1; and Fig. 3 is a detached view of a part thereof.

A represents an iron frame or cap, open in front, and supported upon four legs, B B, which are inserted in sockets formed on the under side of the frame. On the top of the frame A is a rack, C, for holding weights, and on the under side are two chilled-iron loops or hooks *a a*, to receive the knife-edge bearings of the circle-beam D. The circle-beam D is provided with a counter-balance, *b*, at each end of the circle, and has four knife-edge bearings, *d d* and *d' d'*, the outer ones, *d d*, resting in the hooks *a a*, and the inner ones, *d' d'*, holding a self-locking trip or bag-holder, which is kept in place by a guard, *e*, over the ends of the bearings, and fastened to the scale-beam. From each of the bearings *d'* depends a bar, E, having a hook, *f*, at its lower end, for suspending the platform. The bar E is slotted, and in the slot is pivoted a lever, *h*, weighted upon its outer end, and provided at its inner end with a toothed or flanged cross-bar, *i*. Above the lever *h*, in the slot of the bar E, is pivoted a trigger, *k*, to lock the lever in place while holding the bag. When the lock or

trigger is lifted, and the bag dropped, the lever *h* returns to its place by means of the weight or counter-balance on its outer end. An oval ring, I, is held in the flanged bars *i*, and the mouth of the bag drawn through and held by said ring. In the center of the beam D is a projection, D', with two ears, *m m*, on its under side, between which the scale-beam G is pivoted by a pin passing through an elongated slot, *n*, in the beam G. On the inner end of said beam is a hook or projection, *x*, to catch in a recess when the beam G is moved inward, and thus hold the beam in proper position for weighing. By drawing out the beam G the length of the slot *n* it can be folded under so as to be out of the way when not in use. Attached to the scale-beam is a rod, *p*, with a sliding poise, *s*, to be held in place by a set-screw, and on the end of the beam is a loop, *t*, to receive the ordinary stem for holding additional weights. H is the weighing-platform, made of tapering shape, as shown, and suspended from the hooks *f f*.

This scale is simple and durable, and can be easily manipulated.

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

1. The combination of the slotted pendant E with hook *f*, weighted lever *h*, with toothed bar *i* and ring I, and lock *k*, all constructed and arranged to operate substantially as and for the purposes herein set forth.

2. The combination of the circle-beam D, with extension D', having ears *m m*, the folding beam G, with slot *n* and hooks *f*, rod *p*, and poise *s*, substantially as herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

HENRY T. BUDGE.
his
mark.

Witnesses:

JAMES TAGGART,
DAVID DAVIS.