(No Model.)

C. F. EDMINSTER.

SCALE.

No. 553,978. Patented Feb. 4, 1896.

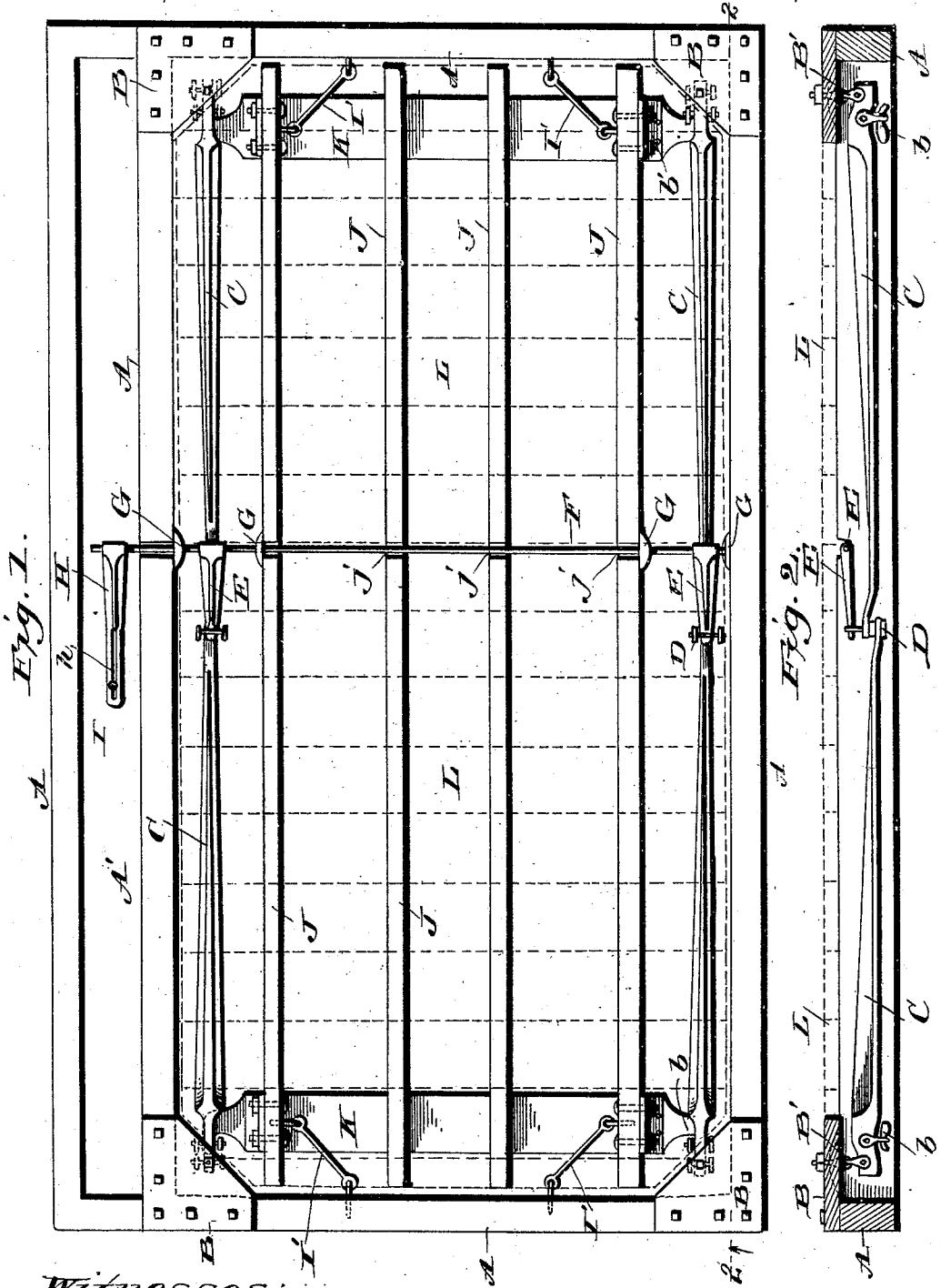

Fig. 1.

Fig. 2.

Witnesses:
L. C. Hills.
E. A. Bond

Inventor:
Charles F. Edminster,
by E. B. Stocking
Atty.

UNITED STATES PATENT OFFICE.

CHARLES F. EDMINSTER, OF WYANET, ILLINOIS.

SCALE.

SPECIFICATION forming part of Letters Patent No. 553,978, dated February 4, 1896.

Application filed April 23, 1895. Serial No. 546,850. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. EDMINSTER, a citizen of the United States, residing at Wyanet, in the county of Bureau, State of Illinois, have invented certain new and useful Improvements in Scales, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in scales of that class known as "platform-scales;" and it has for its objects, among others, to provide a simple and cheap scale in which the parts are so constructed and arranged as to avoid the necessity of providing a pit beneath or an elevation above the ground.

The levers are suspended from suitable means and lie alongside and parallel to and between the timbers of the scale-frame and the floor-joist and are connected by a short lever and by suitable means to the scale-beam, the mechanism beneath the platform being all suspended within the depth of the scale-frame extending neither above nor below this depth and thus permitting a wagon or stock scale to be built flat or substantially flat upon the ground or floor.

The mechanism also is simplified and is thus rendered more durable and inexpensive and less liable to injury or derangement.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a top plan with the flooring indicated by dotted lines. Fig. 2 is a vertical longitudinal section on the line 2 2 of Fig. 1, looking in the direction of the arrows.

Like letters of reference indicate like parts in both of the views.

Referring now to the details of the drawings by letter, A designates the frame of any suitable or well-known construction, consisting of longitudinal and transverse timbers, as shown, and at one side formed with the passage-way A′ for the rod and short lever which connects the transverse connecting-rod with the weigh-beam, the latter not being shown. At each corner is provided a cap-piece B and suitably secured to the longitudinal and transverse timbers of the scale frame, as shown, and these cap-pieces are provided with common or ordinary clevis bearings or hangers B′, from which are suspended in the ordinary manner the four main levers C, as shown in both views, these levers having upon their under sides the additional bearings, as shown at *b*, of any well-known or suitable form of construction. These levers C C extend in pairs at opposite sides of the scale, and at their inner or adjacent ends are attached by means of the common double clevis or point bearings D to the short lever E, which are attached to the transverse connecting-rod F, which rests upon knife-bearings at G G, and one end of this transverse connecting-rod F is extended in the passage-way A′, as shown in Fig. 1, and attached thereto is a short lever or arm H, which is designed to transmit the pressure therefrom to a common rod I designed to extend upward and to be connected with the weigh-beam. (Not shown.) This rod is adjustable in a slot *h* of the arm H, as seen in Fig. 1.

Suitable stay-links I′ are provided, one in each corner, as seen in Fig. 1, which connect the floor-joist J to the end timbers of the scale-frame, said floor-joist J being provided with openings *j*, as seen in Fig. 1, for the passage of the rod F, and said joists are supported at their ends upon the transverse plates K, which at their ends support the casting hooks or bearings *b*. The flooring L (indicated by dotted lines in Figs. 1 and 2) is supported upon these floor-joists in the usual manner.

In practice the pressure or weight is transmitted from the levers C C to the short levers E E and through the rod F to the weigh-beam. The parts constituting the scale are compactly arranged, requiring no pit beneath or elevation above the ground and are all arranged within the depth of the timbers of the scale-frame.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages. The lever H may be extended either way from the rod F, as shown. In one position the pressure is communicated directly to the weigh-beam and in the other is connected by

means of a common scale-evener, by means of which the beam-box may be placed in any desired direction or distance from the scale proper.

What I claim as new is—

1. The combination with the scale-frame and the caps at the corners, of the levers suspended at their outer ends from said caps and extended parallel with the longitudinal timbers of the frame and within the height thereof, substantially as described.

2. The combination with the scale-frame and the caps at the corners, of the levers suspended from said caps parallel with and alongside of the timbers of said frame and within the height thereof and the short levers connected by clevis to the adjacent ends of the first-mentioned levers in the same vertical plane, substantially as described.

3. The combination with the scale-frame and the caps at the corners, of the levers suspended from said caps and extended toward the center, the transverse rod connected with the weigh-beam and the short levers connected with said rod and with the adjacent ends of the levers in the same vertical plane therewith, substantially as described.

4. The combination with the scale-frame and the levers suspended from the corners thereof within the height of the frame parallel with the side timbers thereof, of the floor-joists within the height of the frame, the transverse rod connected with said levers in the same vertical plane therewith and with the weigh-beam, and the stay-links connecting the floor-joists with the end timbers of the scale-frame, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES F. EDMINSTER.

Witnesses:
A. J. LOTHROP,
M. A. COLBY.