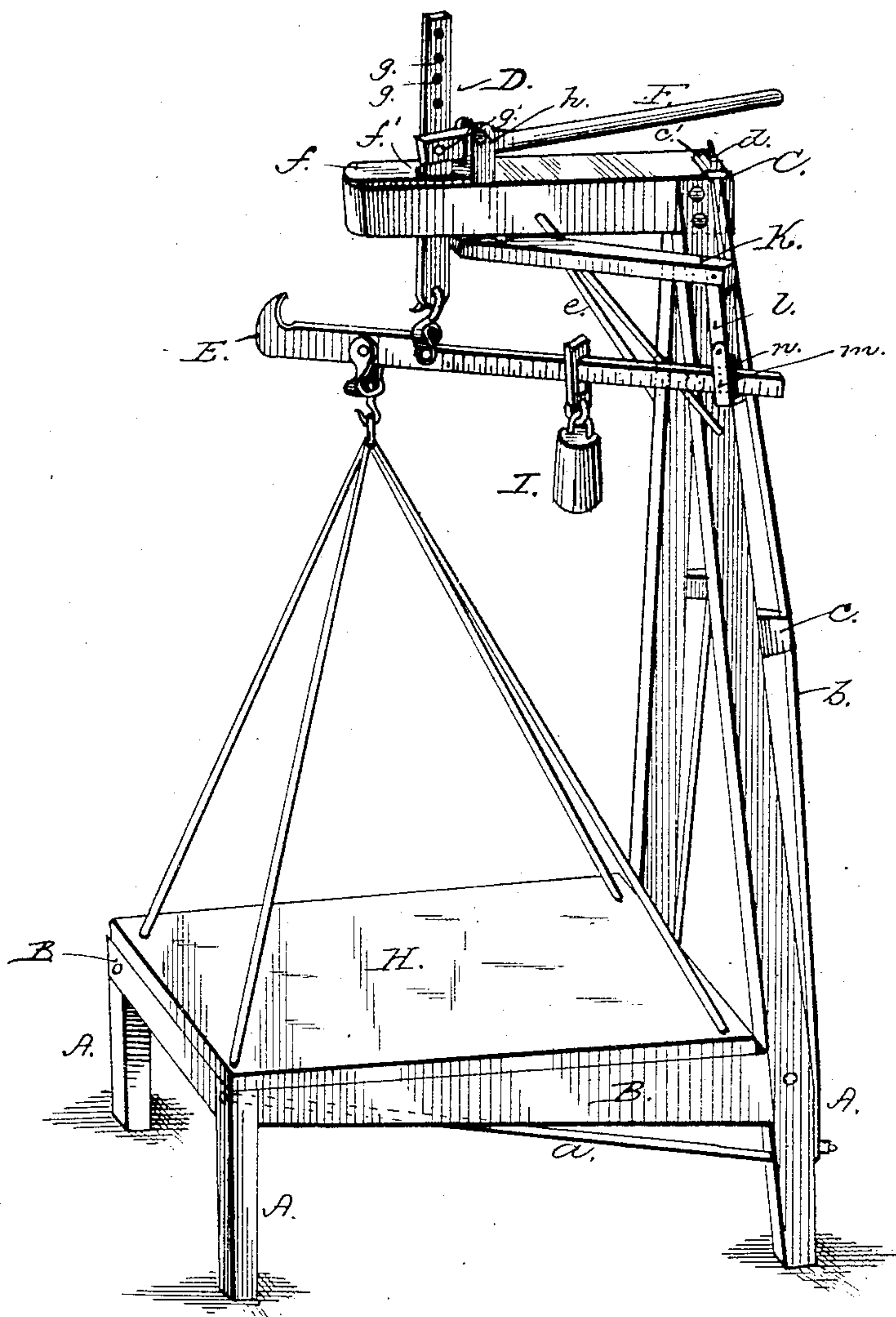


(No Model.)

R. A. MITCHELL & J. VON THURN.
FARMER'S WEIGHING SCALE.

No. 314,599.

Patented Mar. 31, 1885.



WITNESSES

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ROBERT A. MITCHELL AND JACOB VON THURN, OF HELENA, OHIO.

FARMER'S WEIGHING-SCALE.

SPECIFICATION forming part of Letters Patent No. 314,599, dated March 31, 1885.

Application filed September 16, 1884. (No model.)

To all whom it may concern:

Be it known that we, R. A. MITCHELL and JACOB VON THURN, of Helena, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Farmers' Scales; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to letters of reference marked thereon, which forms a part of this specification.

Our invention has for its object to provide an improved and novel construction of weighing-scales, which are designed more particularly for use as an ordinary platform or sack scales; and our improvements consist, essentially, of a frame of novel construction having a projecting arm or support, through which the hoisting-bar moves vertically, and upon the lower end of which is suspended the steelyard-beam and loading-platform, a lever being pivoted in suitable bearings upon the top of said arm or support to raise or lower the hoisting-bar and scale mechanism, and a supporting-arm of novel construction being attached to the under side of said arm or support to hold the scale-beam during the operation of loading the platform, all as will be hereinafter fully described, and specifically designated in the claim.

In the accompanying drawing the figure represents a perspective view of our improvements.

In carrying out our invention the main frame is composed of an open rectangular base formed of the four uprights, A, and the side and end bars, B, as shown. The two rear uprights extend upwardly in a slanting position, and are connected at their upper ends to the rear portion of the projecting arm or support C, one on each side. On each side of the base of the frame is arranged an iron rod, *a*, which passes from the front uprights to the rear ones in such manner as to form a stay or brace, the ends of said rod being secured by nuts or other suitable means. A similar rod, *b*, extends from the bottom of the rear uprights, one on each side of the

frame, and, passing over the block *c* at the central part of said uprights, are secured to the metallic cross-plate *d*, upon the rear end of the arm or support C, by means of the nuts *e*, as shown. A smaller brace or rod, *e*, is secured to the arm or support C and to the rear uprights A, at the inner upper ends of the same. By means of this construction the frame-work may be made of very light material, the arrangement of the braces being such as to impart great strength, not only to the frame proper, but also to the supporting-arm C, enabling the same to withstand heavy strain. Upon the upper front end of the arm or support C is secured a metallic plate, *f*, having a slot, *f'*, corresponding to and coming in juxtaposition with a slot through the end of said arm, and through which is adapted to move vertically the hoisting-bar D, which is provided upon its lower end with a suitable hook and swivel to receive the scale-beam E, the upper part of said hoisting-bar being provided with a series of holes, *g*, adapted to receive the pins *g'* to regulate the vertical movement of said bar.

Pivoted within the upright bracket *h*, upon the top of the arm or support C, is provided a lever, F, the front end of which engages the pins *g'* to raise the hoisting-bar during the operation of weighing. A suitable platform, H, is suspended to the scale-beam E in a manner well known, and the said scale-beam is provided with the weight I, as shown.

Pivoted to the under side of the projecting arm or support C is provided an arm, K, having an extension, *l*, hinged to its outer end and projecting downward at right angles thereto, as shown. The lower end of this extension *l* is provided with a square slot or groove, *n*, which is covered by the slide or plate *m*, said slot or groove being adapted to receive the outer end of the scale-beam to support the same during the operation of loading the platform, the end of said scale-beam being readily inserted or removed from the slot or groove in said extension.

Having thus described our invention, what we claim as new and useful is—

The herein-described weighing-scales, consisting of the rectangular base and uprights A,

provided with the braces *a*, *b*, and *c*, and carrying the projecting arm C, hoisting-bar D, lever F, scale-beam E, platform H, and supporting-arm K, having the extension *l*, provided
5 with the slot *n*, for the reception of the end of the scale-beam E, all substantially as and for the purpose specified.

In testimony that we claim the foregoing as

our own we affix our signatures in presence of two witnesses.

ROBERT A. MITCHELL.
JACOB VON THURN.

Witnesses:

J. FAIRBANK,
H. G. HARTER.