

No. 640,158.

Patented Dec. 26, 1899.

J. S. COX.

PLATFORM WEIGHING SCALE.

(Application filed July 25, 1899.)

(No Model.)

Fig. 2.

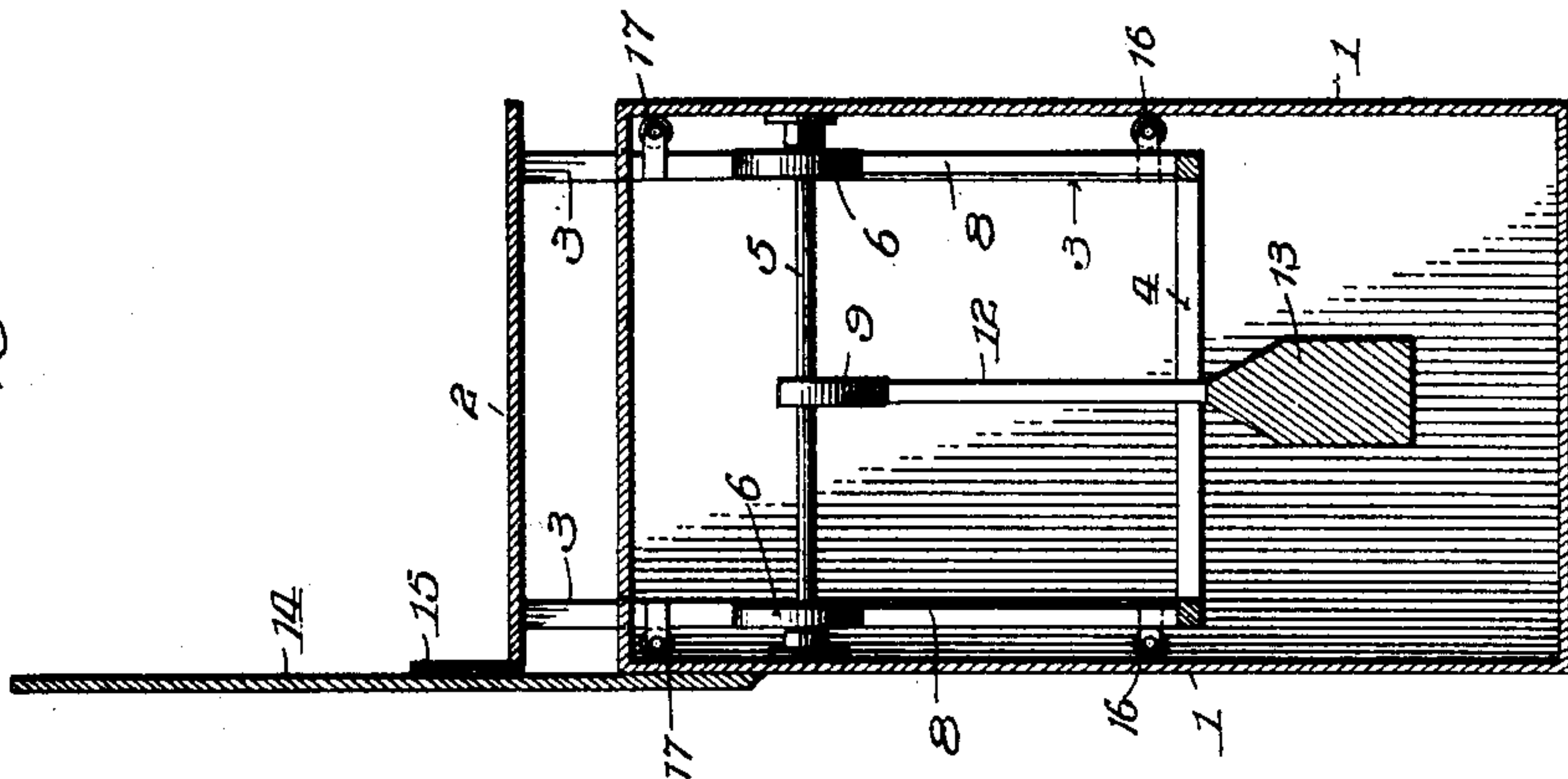
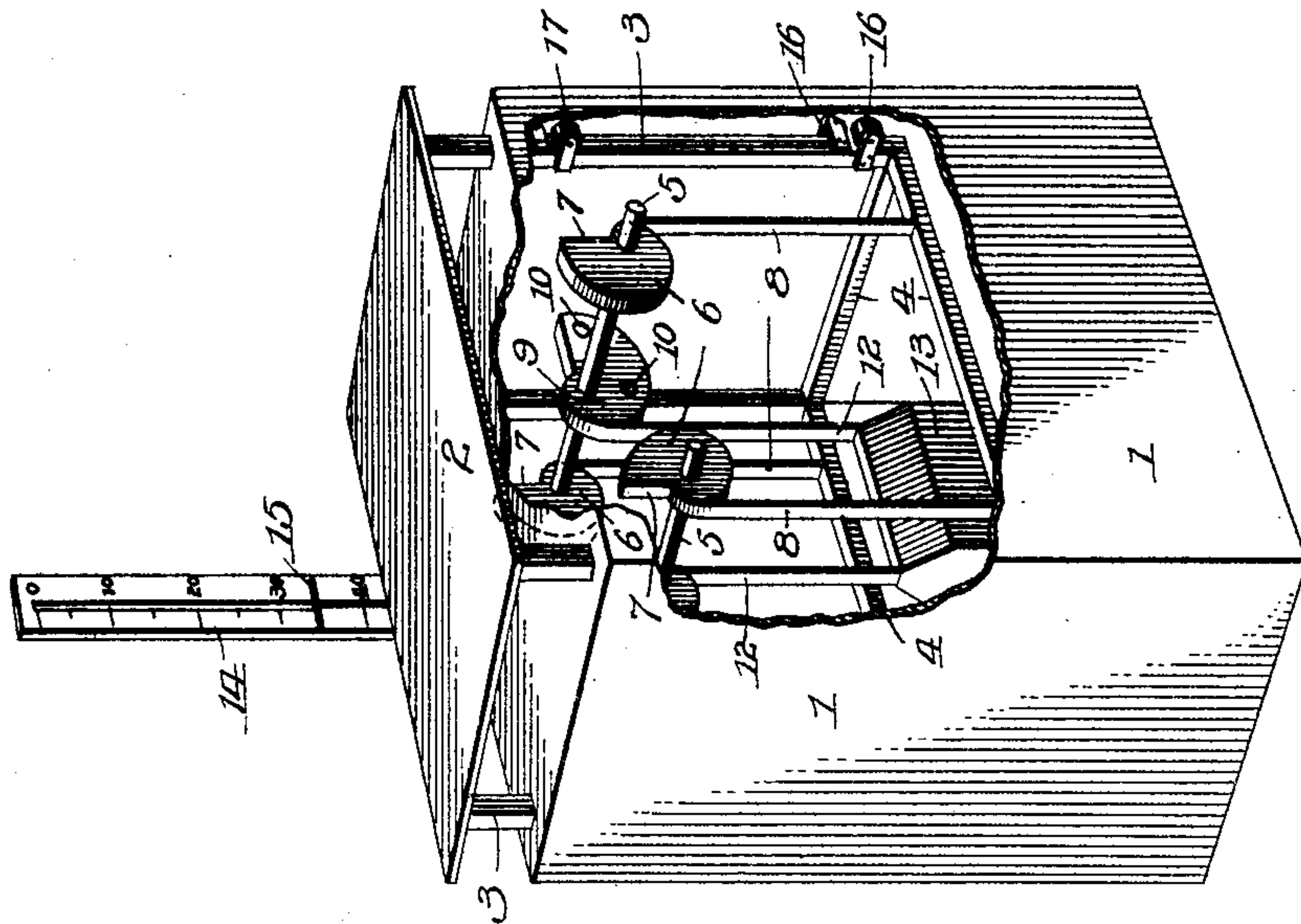


Fig. 1.



Witnesses:

Harry S. Rohrer
H. H. F. Ogilvie.

Inventor:

John S. Cox
by L. Deane Son
his attys.

UNITED STATES PATENT OFFICE.

JOHN S. COX, OF ESCONDIDO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO
JOHN P. OLESON, OF SEATTLE, WASHINGTON.

PLATFORM WEIGHING-SCALE.

SPECIFICATION forming part of Letters Patent No. 640,158, dated December 26, 1899.

Application filed July 25, 1899. Serial No. 725,075. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. COX, a citizen of the United States, residing at Escondido, in the county of San Diego and State of California, have invented certain new and useful Improvements in Platform Weighing-Scales, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to platform weighing-scales in which the weight of the articles placed upon the platform overcomes the resistance of a weight connected with means intermediate the platform, whereby as the platform is depressed the weight is indicated by a suitable scale and pointer.

The object of the invention is to provide an improved construction of such scales whereby I secure important advantages with respect to efficiency in operation.

The invention consists in the novel construction and combination of parts herein-after fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view, partly broken away, of a weighing-scale constructed in accordance with my invention. Fig. 2 is a vertical section of the same.

In the said drawings the reference-numeral 1 designates a rectangular box which contains the weighing mechanism.

The numeral 2 designates a platform provided with downwardly-depending bars 3, which pass through holes in the top of the box. At the lower ends these bars are connected with an open rectangular frame consisting of four horizontal bars 4, secured to each other at the ends.

Located in the upper portion of the box are two rotatable horizontal shafts 5, the ends of which are journaled in ball-bearings in the sides of the box, and near each end both of these shafts are provided with a cam 6, having a plain portion 7. Connected with these cams are metal or other straps 8, which are also connected with the said frame. Also secured to said shafts is a central cam 9, provided with holes 10 for the purpose of adjusting the weight with respect to cams 6, and connected

with said cam 9 are metal or other straps 12, secured to a weight 13. Secured to the said box is a scale 14, and connected with the platform is a pointer 15. The lower ends of the bars 3 are provided with guide-rollers 16, and the box near the upper ends at each corner is provided with corresponding guide-rollers 17.

The operation will be readily understood. When an article is placed on the platform, it will be depressed, and through the medium of the bars 3 and frame and the straps 8 the cams 6 will be turned, which will rotate the shaft, winding up the straps 12 on the cam 9 and elevating the weight. The pointer will now indicate the weight of the article on the scale. After the article has been removed the weight will descend, reversing the above movement and elevating the platform.

The cams 6 and 9 are arranged oppositely to each other, so that as the end cams 6 are turned in one direction the central cam 9 will be turned in a reverse direction.

Having thus fully described my invention, what I claim is—

1. In a weighing-scale the combination, with the box, the platform, the depending bars and the rectangular frame secured to the lower end thereof, of the rotatable shafts, the end cams secured thereto, the straps secured thereto and to said frame, the central reversely-arranged cams, the straps secured thereto, the weight secured to said straps and the scale and pointer, substantially as described.

2. In a weighing-scale, the combination with the box, the platform, the depending bars, the frame secured thereto and the guide-rollers, of the horizontal rotatable shafts, the end cams secured thereto, the straps secured thereto and to said frame, the central oppositely-arranged cams formed with holes, the straps secured thereto, the weight, the scale and the pointer, substantially as described.

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

JOHN S. COX.

Witnesses:

F. P. WILLARD,
B. GOODSON.