

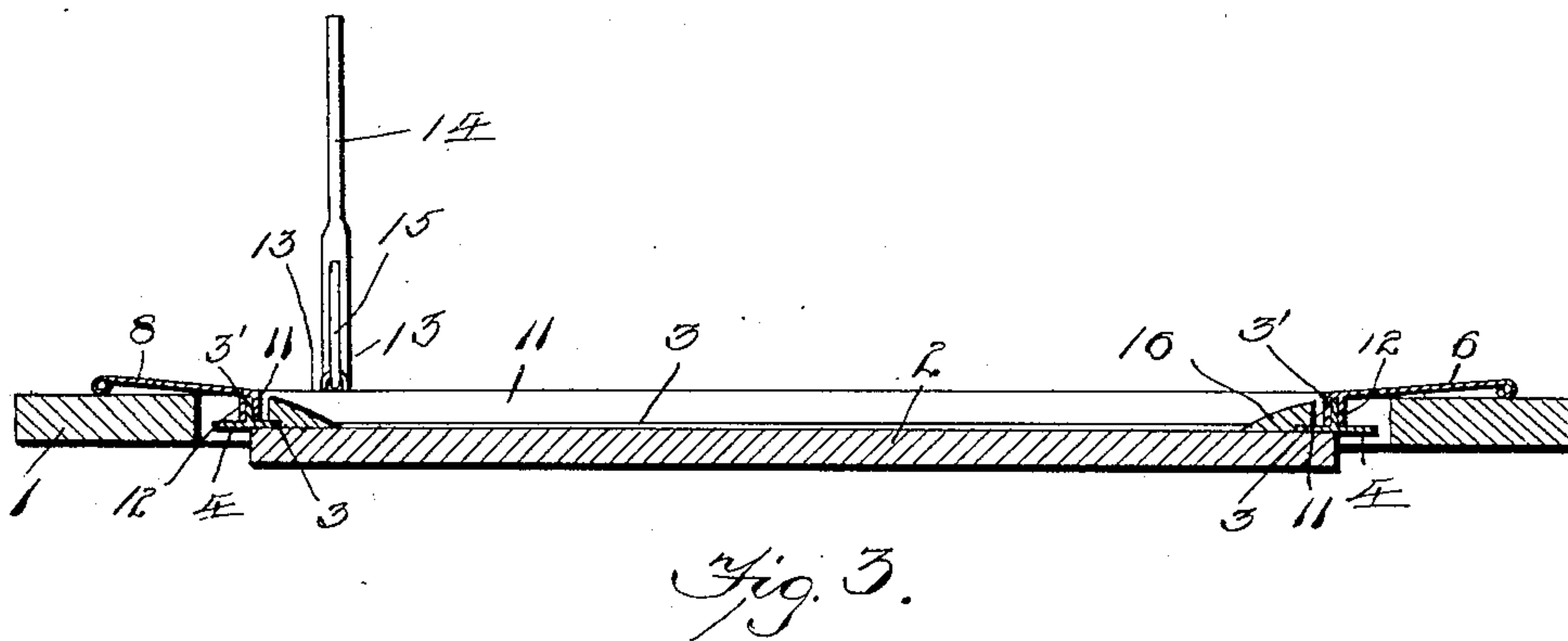
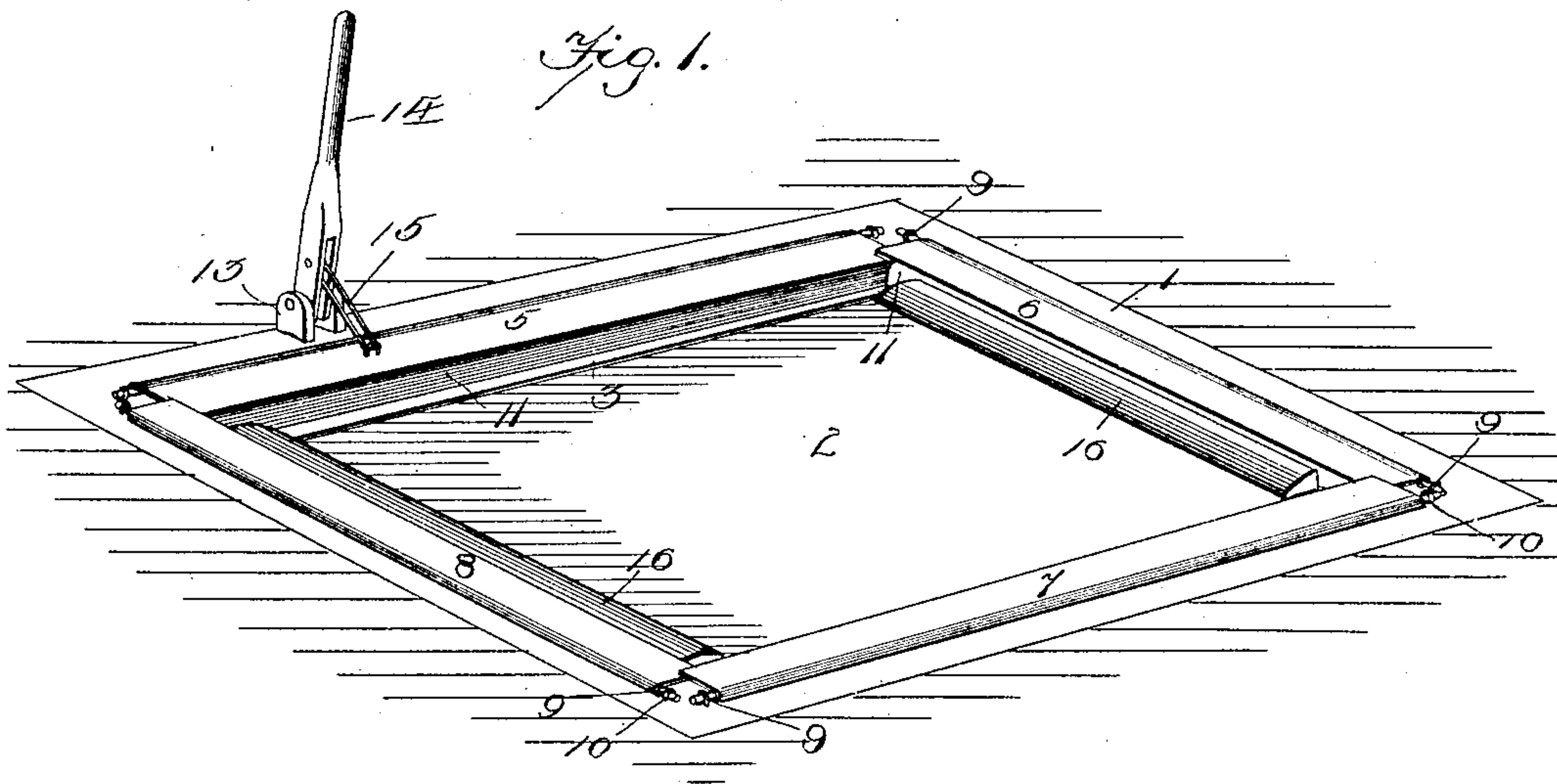
(No Model.)

2 Sheets—Sheet 1.

B. K. CLIMIE.
ATTACHMENT FOR PLATFORM SCALES.

No. 597,761.

Patented Jan. 25, 1898.



Witnesses

T. L. Mockabee
Victor J. Evans.

Inventor
Benjamin K. Climie

By

John Wedderburn
Attorney

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

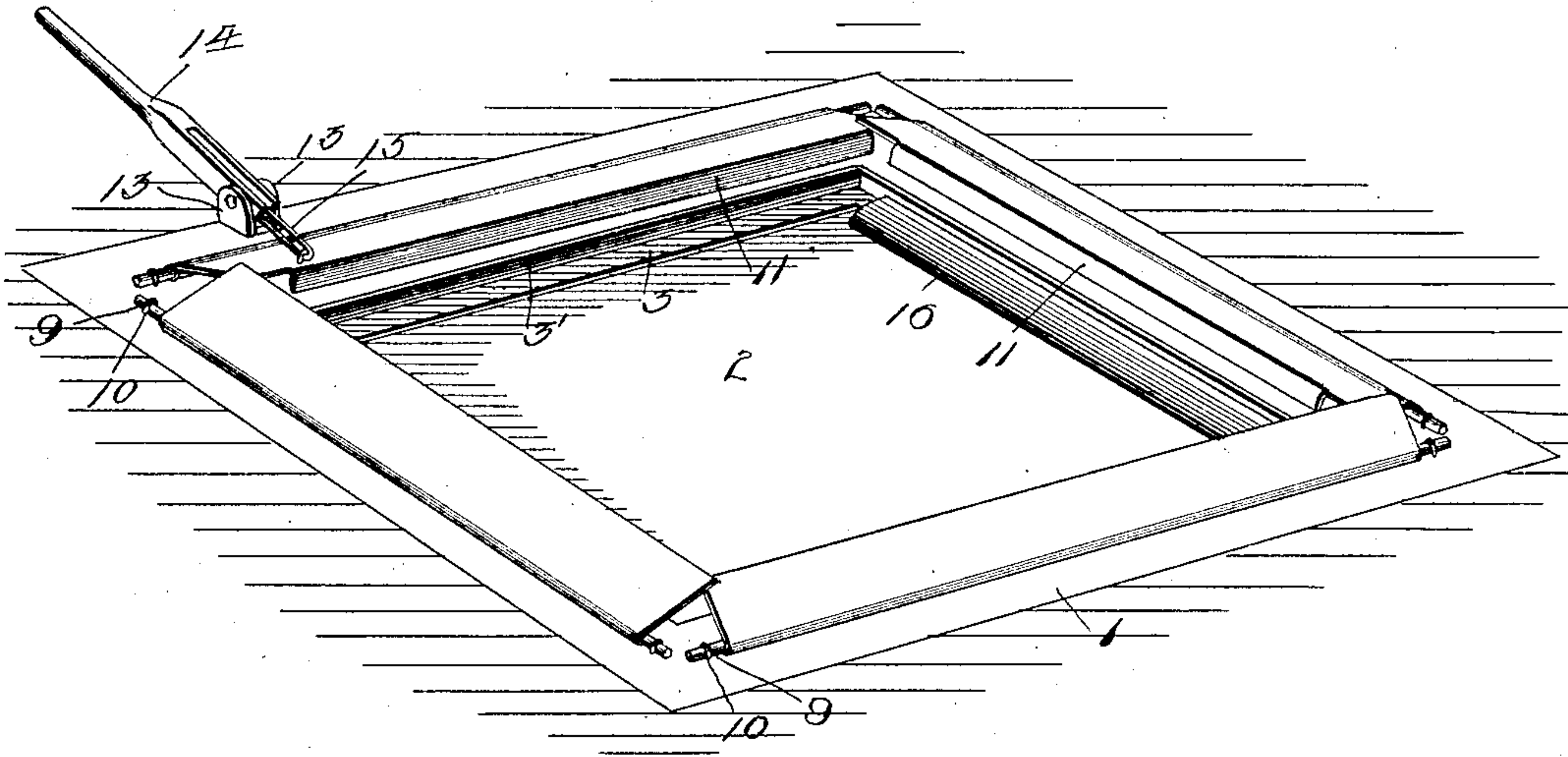
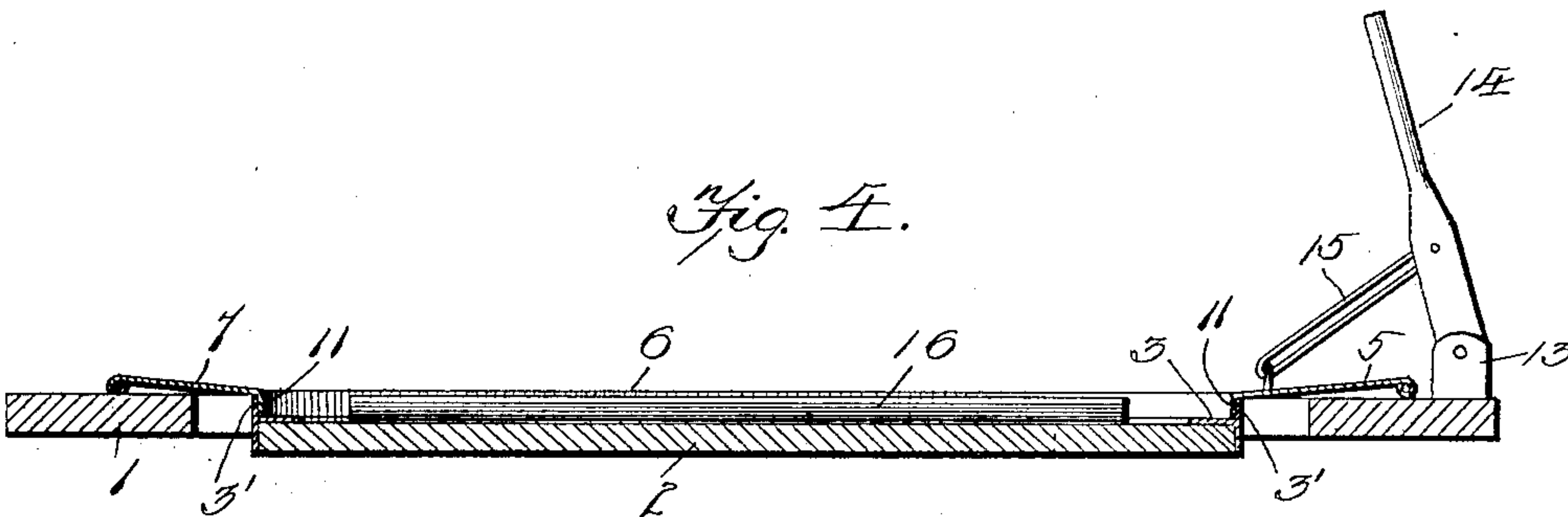


Fig. 4.



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UNITED STATES PATENT OFFICE.

BENJAMIN K. CLIMIE, OF COOPERSTOWN, NORTH DAKOTA.

ATTACHMENT FOR PLATFORM-SCALES.

SPECIFICATION forming part of Letters Patent No. 597,761, dated January 25, 1898.

Application filed June 18, 1897. Serial No. 641,251. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN K. CLIMIE, of Cooperstown, in the county of Griggs and State of North Dakota, have invented certain new and useful Improvements in Wagon-Scales; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in wagon-scales; and the object of the same is to so construct the scales as to prevent the passage of snow beneath the edges of the platform of the scale and also to prevent the same from freezing to the frame in cold weather and swelling and sticking in warm damp weather.

In the present construction of wagon-scales the mechanism is affected by the changes in the atmosphere and its accuracy impaired thereby; and it is the object of my invention to overcome this difficulty, which I have accomplished by the attachment set forth in the specification, specified in the claims, and illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of the frame of the scales and the platform with my improvement applied thereto. Fig. 2 is a similar view showing the position of the attachment when the scales are to be used for weighing. Fig. 3 is a longitudinal sectional view of Fig. 1. Fig. 4 is a transverse section of the same figure.

Referring to the accompanying drawings, 1 indicates the frame of the scales, and 2 the platform, which in the present instance is positioned slightly below the upper surface of the frame. Surrounding the sides and ends of the platform are the plates 3, which have their end portions formed with vertical flanges 3', and projecting from the ends of said platform are the horizontal flanges 4. The platform is smaller in area than the space inclosed by the frame, so that its sides and ends do not come in contact with the frame.

5, 6, 7, and 8 indicate plates which are pivoted upon the frame adjacent its sides and ends, respectively. The plates are pivoted to the frame by staples 9, which pass through perforations 10 in the frame. Formed on the inner edges of the plate are the depending

flanges 11, which are of substantially the same length as the flanges of the platform, as illustrated. The end plates are provided with the depending flanges 12, adjacent the flanges 11, and when the plates are lowered, as in Fig. 1, the flanges 11 and 12 of the end plates extend on opposite sides of the end flanges of the platform, flanges 12 resting upon the horizontal flanges, thereof while the flanges of the side plates extend on the inner side of the flanges of the platform.

The flanges of the plates do not extend from end to end thereof, so that when the plates are swung downward their ends are permitted to overlap, one end of each end plate resting upon the upper surface of the side plate 5 at its end and the opposite ends of said end plates position beneath the ends of the opposite side plate.

Pivoted between uprights 13, raised from one of the side pieces of the frame, is a lever 14, which is slotted on its inner side, and pivoted at one end in this slot is a link 15, which at its opposite end is pivoted to plate 5. When the upper end of this lever is depressed, the plates are raised to the position illustrated in Fig. 2 by reason of the end plates resting at one end upon plate 5 and the opposite side plate 6 resting upon the opposite ends of said end plate. In operation the vehicle is driven upon the platform, inclined strips 16, secured upon the platform at its opposite ends, permitting the passage of the vehicle without jar or injury to the platform and the plates are raised, as above described. In this position the platform is permitted to move to accomplish the weighing, and when the weighing operation is completed the plates are lowered and the wagon removed from the platform. Should the horses of the vehicle start before the plates are lowered, said plates will automatically fall when the wagon or horses come in contact therewith, and thus will not be damaged by the wagon.

From the above description it will be seen that I have produced an improved platform weighing-scale in which the platform is made sufficiently smaller than the space inclosed by the frame to prevent the same from freezing to the frame and from sticking thereto by swelling in warm damp weather and have provided plates which close the space around

the sides and ends of the platform to prevent snow, dirt, or water from passing there-through.

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

1. In a weighing-machine, the combination of a frame, a platform, the upper surface of said platform being slightly below the upper surface of the frame, vertical flanges surrounding the sides and ends of said platform, a series of plates pivoted to the frame, depending flanges formed upon the inner edges of said plates, said flanges adapted to engage the flanges of the platform, and means for raising and lowering said plates, substantially as set forth.

2. In a weighing-scale, a platform having its upper surface a short distance below the upper surface of the frame, plates secured to the upper surface of said platform, and having their outer edges turned upward to form flanges which extend around the sides and ends of said platform, plates pivoted to the upper surface of the frame at its sides and ends, said plates having depending flanges formed on their inner edges which are adapted to extend on the inner sides of the platform-flanges when the plates are lowered, and means for raising and lowering said plates, substantially as set forth.

3. In a weighing-scale, the combination of a frame, a platform smaller in area than the space inclosed by the frame, and having its upper surface a short distance below the upper surface of the frame, horizontal flanges extending from the ends of said platform, plates surrounding the edges of said platform,

vertical flanges raised therefrom, plates pivoted to the upper surface of the frame adjacent its inner edge, flanges formed on the inner edges of said plates adapted to extend on the inner sides of the vertical flanges of the frame when the plates are lowered, flanges formed on the end plates adjacent the first-named flanges and adapted to extend on the outer sides of the vertical end flanges of the platform, and rest upon the horizontal flanges thereof, and means for raising and lowering said plates, substantially as set forth.

4. In a weighing-scale, the combination of a frame, a platform having its upper surface a short distance below the upper surface of the frame, flanges surrounding the edges of said platform, plates pivoted to the upper surface of the frame, flanges on said plates adapted to extend on the inner sides of the flanges of the platform when the plates are lowered, a lever pivoted upon the frame and provided with a slot, and a link pivoted at one end in said slot, and at its opposite end to one of said plates, the plates adjacent the ends of the plate to which the link is pivoted, having their ends resting on said plate, while the remaining plate has its ends resting on the ends of the latter plates, whereby, when the lever is depressed, the plate pivoted thereto is raised and the other plates correspondingly moved, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

BENJAMIN K. CLIMIE.

Witnesses:

M. W. BUCK,

GEO. H. LAURENCE.