

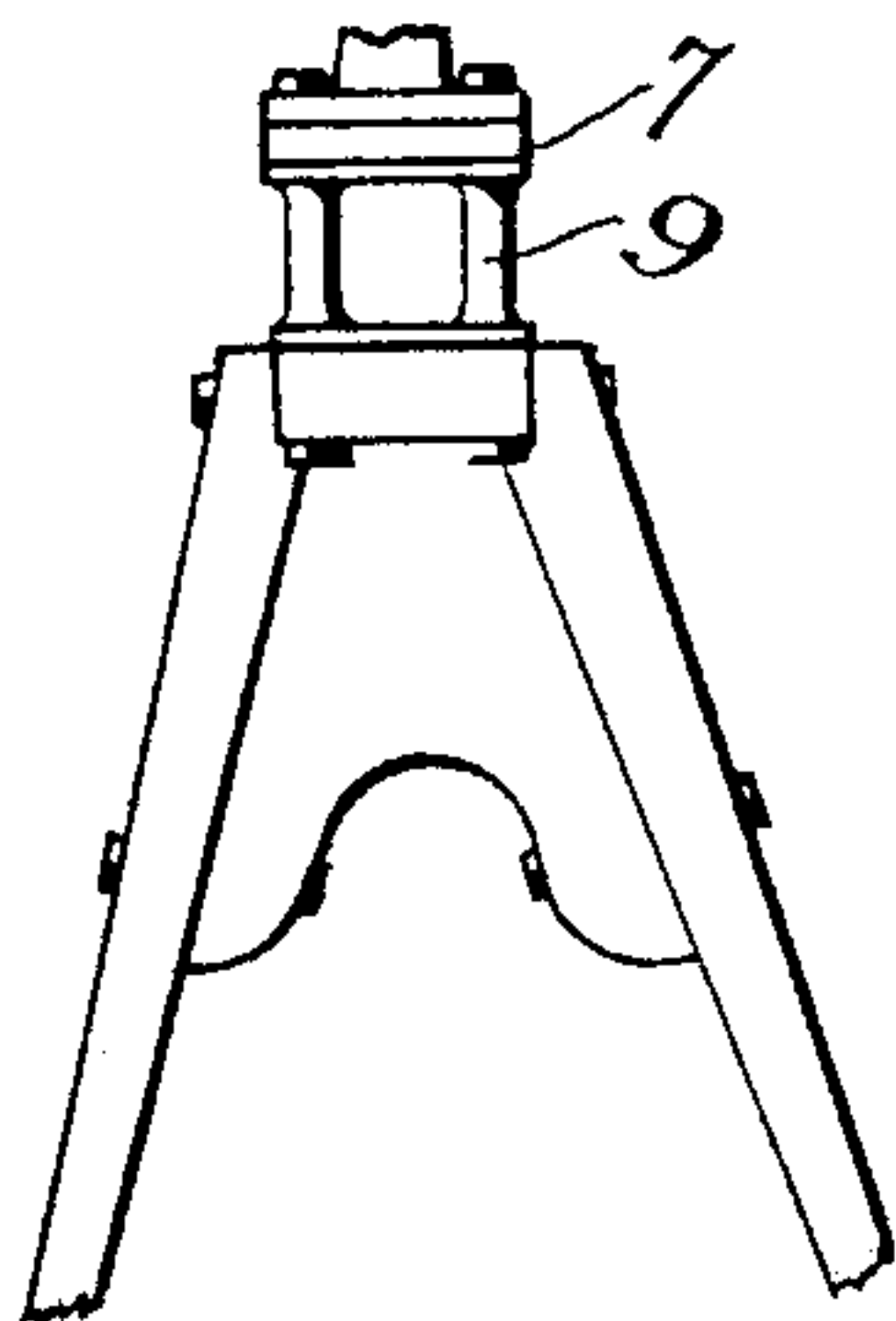
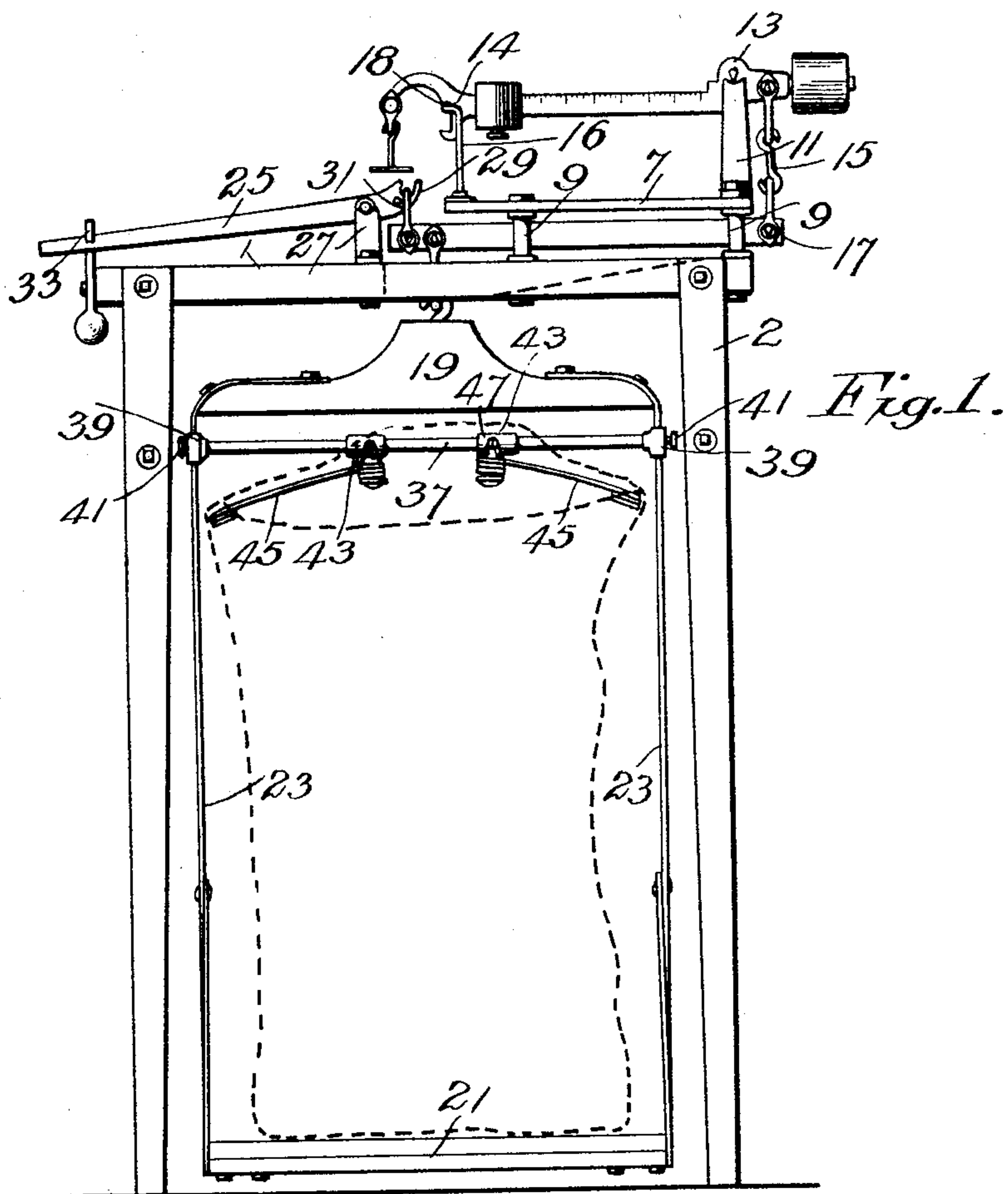
(No Model.)

2 Sheets—Sheet 1.

M. B. LLOYD.
BAG HOLDING WEIGHING SCALE.

No. 500,337.

Patented June 27, 1893.



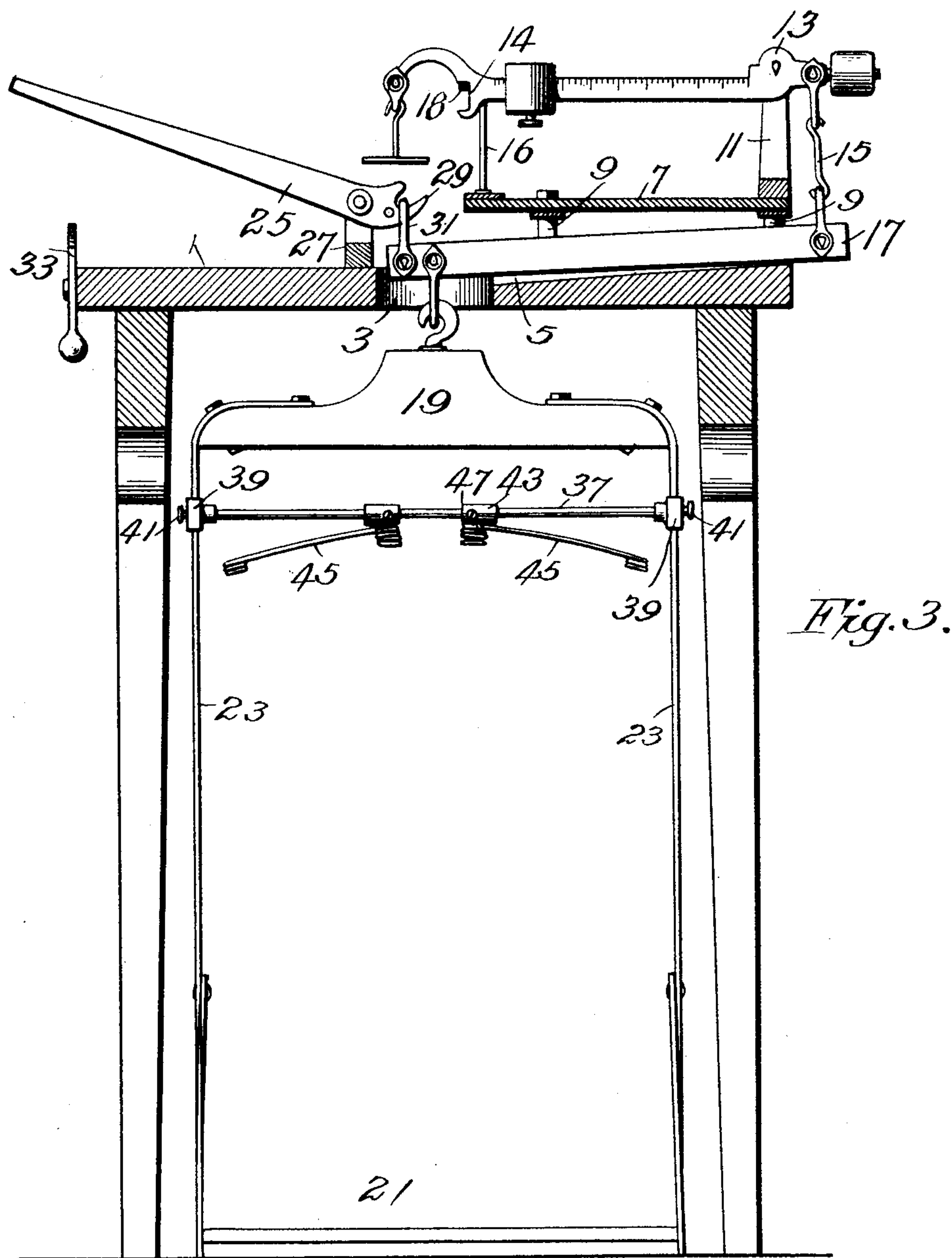
Witnesses,
C. E. Van Dorn,
F. S. Lyon.

Inventor,
Marshall B. Lloyd.
By Paul *[Signature]*
his Attorneys.

2 Sheets—Sheet 2.

No. 500,337.

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Inventor,
Marshall B. Lloyd.

By Paul Mervin
his Attorneys.

UNITED STATES PATENT OFFICE.

MARSHALL BURNS LLOYD, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR TO THE
LLOYD SCALE COMPANY, OF SAME PLACE.

BAG-HOLDING WEIGHING-SCALE.

SPECIFICATION forming part of Letters Patent No. 500,337, dated June 27, 1893.

Application filed July 18, 1892. Serial No. 440,305. (No model.)

To all whom it may concern:

Be it known that I, MARSHALL BURNS LLOYD, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Weighing-Scales, of which the following is a specification.

This invention relates to improvements in the weighing scale for which Letters Patent of the United States were issued to me on the 28th day of February, 1888, No. 378,698, and the objects I have in view are to improve the construction of the scale, and to provide means by which the suspended platform may be let down onto the floor without injury to the scale and without throwing the beam out of position.

A further object of the invention is to arrange the suspended platform so that it will support a bag of any desired size.

In the accompanying drawings forming a part of this specification:—Figure 1 is a side elevation of a scale constructed in accordance with my invention. Fig. 2 is a detail showing the upper part of the frame. Fig. 3 is a central vertical section.

In the drawings, 2 represents the frame, which is of any suitable height and is preferably constructed with the inclined legs making the frame substantially in the form of a carpenter's saw-horse. The upper platform 1 thereof is provided with the central slot 3 and with the inclined slot 5 extending from said central slot and one end of the platform. A table 7 is supported upon the top of said platform upon suitable standards 9 and upon this table are arranged the standards 11 upon which the beam 13 is pivoted. This beam is connected by a suitable connection 15 with the lever 17, said lever supporting the suspended platform 19 that is provided with a bottom 21 and the side rods 23. The lever 17 is supported at its other end upon the pivoted lever 25, said lever being pivoted in the standard 27 and provided with the hook 29 adapted to engage the link or clevis 31 that is connected to the end of the lever 17. A weighted hook 33 is arranged upon the end of the frame and adapted to engage the lever 25 and hold said lever in any desired position. The end of the beam 13 is provided with a notch 14 and upon the table 7 is arranged a standard 16 that extends up on each side of the beam

and is provided with the cross bar 18 arranged in the notch 14. When the lever 25 is in the position shown in Fig. 1 the platform is entirely suspended from the scale. When the lever is thrown down into the position shown in Fig. 3 the platform rests upon the floor and is entirely unsupported from the scale. After placing the weight upon the platform while it is resting upon the floor, the lever 25 is moved so as to carry its free end under the hook 33, the other end thereby raising upon the lever 17 and the beam 13 being moved up so as to engage the cross bar 18 on the standard 16. This prevents the beam 13 from being thrown out of position no matter how much strain is brought upon said beam, and the platform is now entirely suspended from the scale and its weight may be ascertained by the movement of the slide upon the beam.

The suspended platform is preferably provided with the cross rod 37 which is made adjustable upon said rods 23 by means of the ferrules 39 and set screws 41. Arranged upon the rod 37 are the adjustable sleeves 43 provided with the spring arms 45. The sleeves 43 are provided with the serrated surfaces 47 that are adapted to engage the bag. These spring arms together with the serrated surfaces of the sleeves 43 are adapted to engage and hold a bag as indicated in dotted lines in Fig. 1, and the cross rod may be moved to any desired position so as to engage a bag of any desired height and the sleeves 43 may be adjusted upon the rod 37 to accommodate the width of the bag.

I claim as my invention—

1. The combination with the supporting stand, of the pivoted beam 13 arranged in standards 11 upon said stand, the standard 16 provided with the cross bar 18 adapted to engage a notch in the free end of the beam, the pivoted lever 17 connected to said beam, the pivoted lever 25 to which the lever 17 is connected, the hook 33 for holding said lever, and the suspended platform 19 supported upon the lever 17 and adapted to rest upon the floor when the lever 25 is released and to be raised therefrom with a weight supported on it when the lever 25 is moved in the opposite direction.

2. In a weighing scale having a platform suspended therefrom to support the matter to

be weighed, said platform having side rods, of
a cross bar adjustably supported on said side
rods and carrying adjustable spring arms to
adapt said bar and arms to secure to the plat-
5 form bags varying in length and width, sub-
stantially as and for the purposes described.

3. The combination with the stand 2 hav-
ing the platform 1 provided with an opening
3, and the inclined slot 5 extending from said
10 opening to the end of the upper portion of the
stand, the table 7 supported upon said stand
by the standards 9, standards 11 arranged
upon said table, the beam 13 pivoted in said
standards and provided with the notch 14, the
15 standard 16 arranged upon said table and pro-
vided with a cross bar 18 engaging said notch
14, the lever 17 connected to said beam and
to the lever 25 and arranged to work in the

inclined slot 5 and the suspended platform
supported upon said lever 17, substantially 20
as described.

4. In a weighing scale having a platform
suspended therefrom to support the matter to
be weighed, said platform having side rods, of
a cross bar adjustably supported on said side 25
rods, the spring arms for securing a bag con-
taining the matter to be weighed, and the
sleeves adjustably mounted on said cross bar
and carrying said spring arms and having the
serrated surfaces, substantially as described. 30

In testimony whereof I have hereunto set
my hand this 29th day of June, 1892.

MARSHALL BURNS LLOYD.

In presence of—

A. C. PAUL,

FREDERICK S. LYON.