J. W. SPURLOCK.

WEIGHING SCALE.

APPLICATION FILED JAN. 3, 1911.

995,922.

Patented June 20, 1911.

3 SHEETS—SHEET 1.

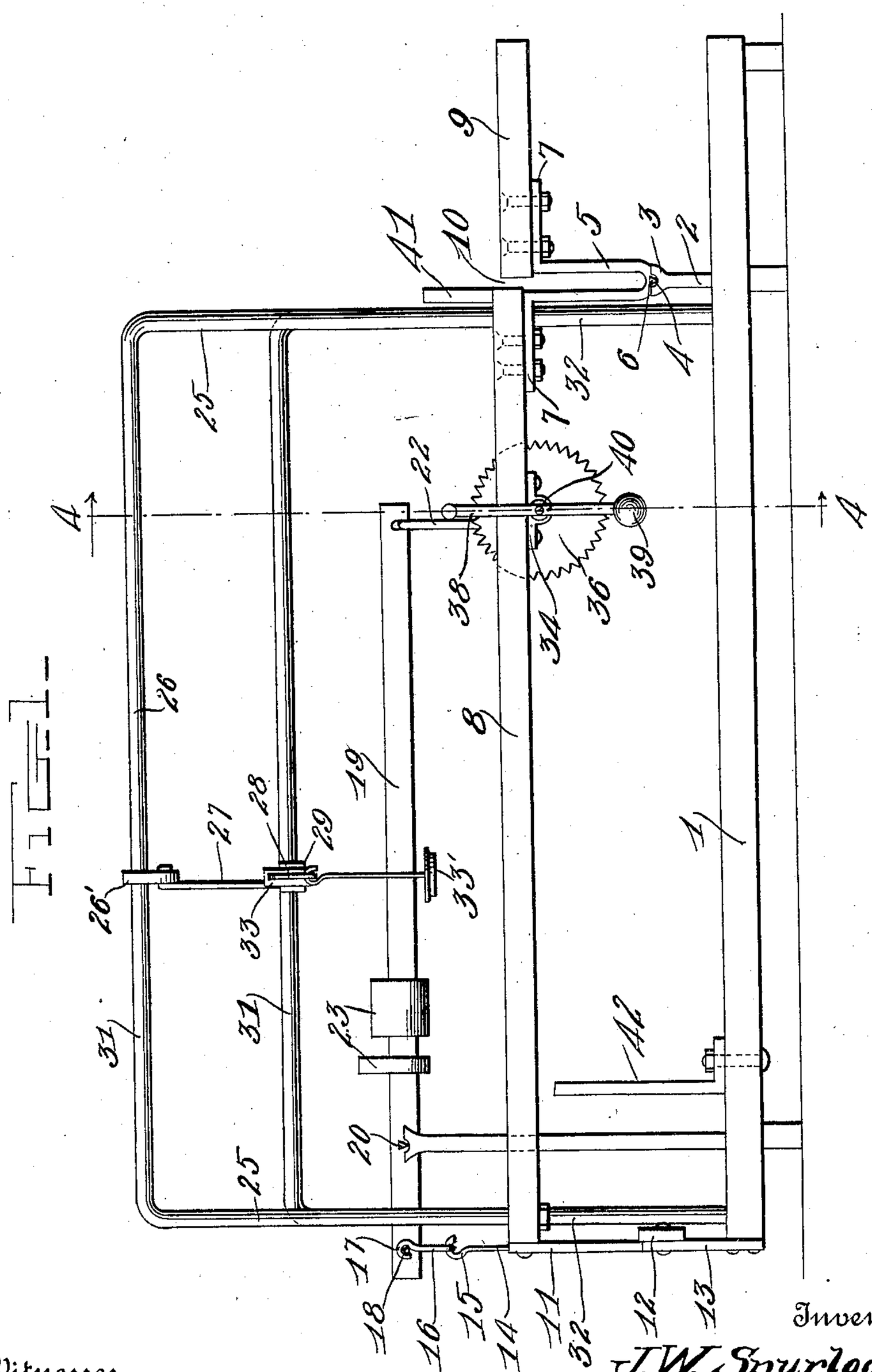


FIG. 1.

Witnesses

P. R. Pierce

O. B. Hopkins

Inventor

J. W. Spurlock.

by A. B. Williamson & Co

Attorneys

J. W. SPURLOCK.

WEIGHING SCALE.

APPLICATION FILED JAN. 3, 1911.

995,922.

Patented June 20, 1911.

3 SHEETS—SHEET 2.

FIG 1.

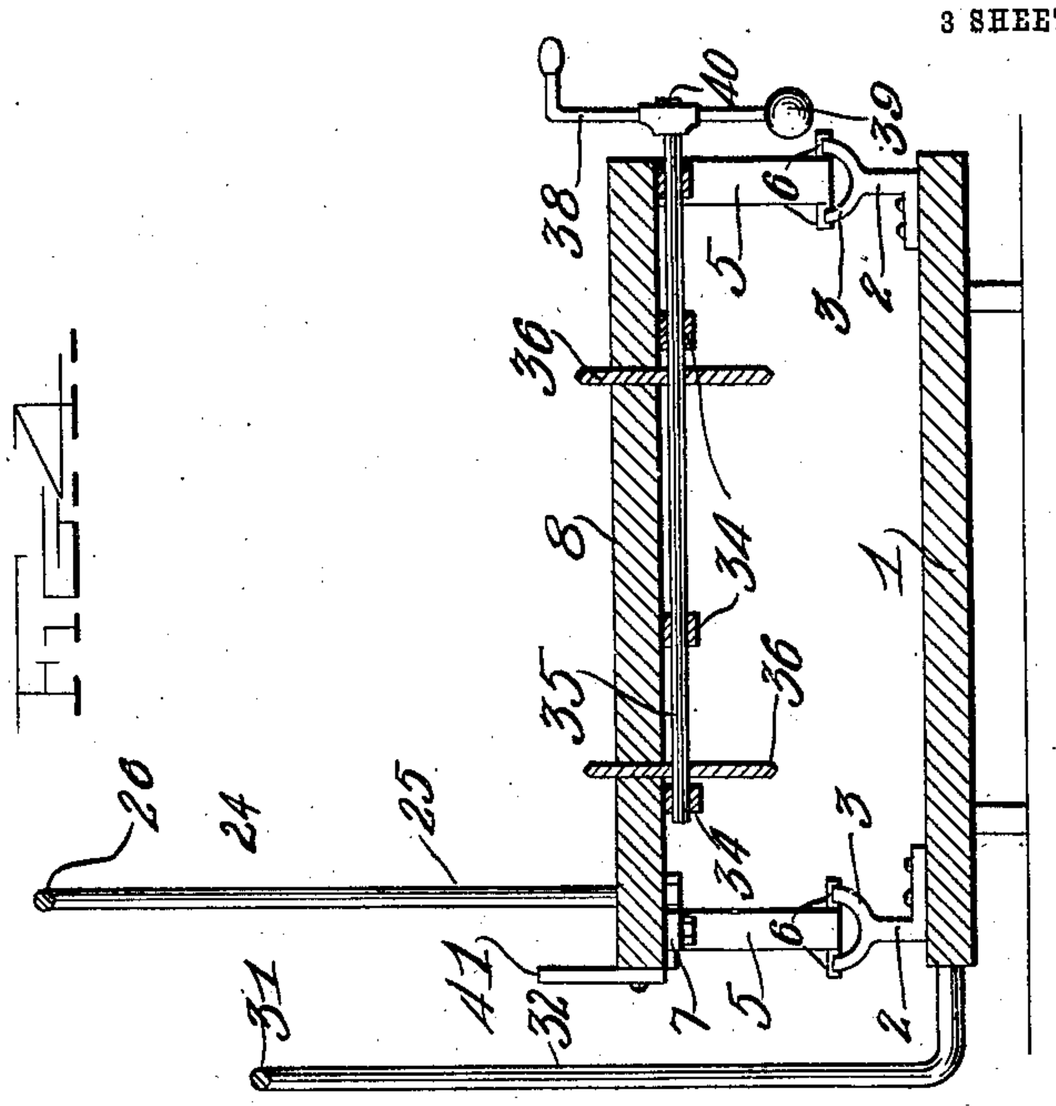
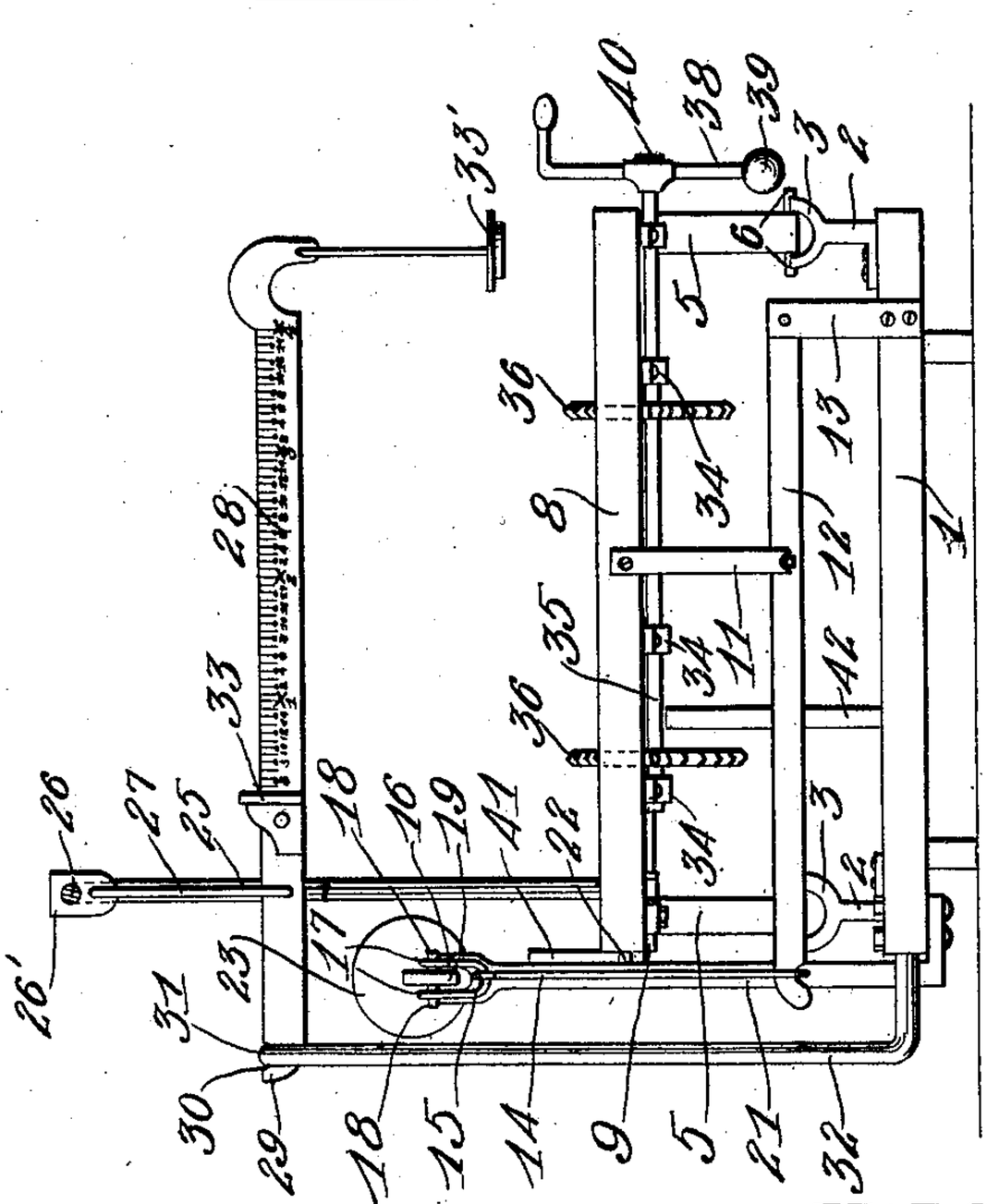


FIG 2.



Witnesses
J. R. Pierce
O. B. Hopkins

Inventor
J. W. Spurlock.
by H. Wilkinson & Co
Attorneys

J. W. SPURLOCK.

WEIGHING SCALE.

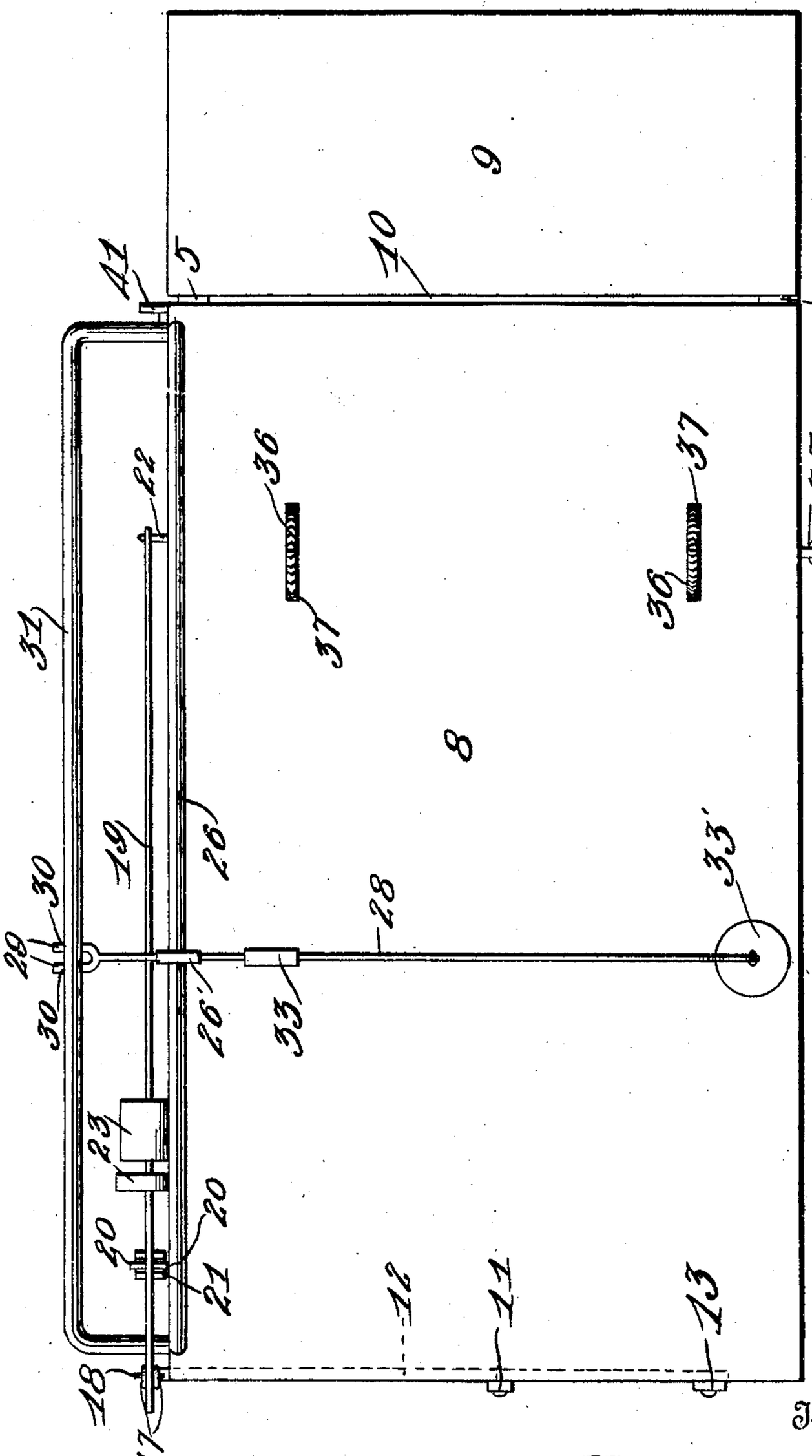
APPLICATION FILED JAN. 3, 1911.

995,922.

Patented June 20, 1911.

3 SHEETS—SHEET 3.

FIG. 3.



Witnesses
J. R. Pierce
O. B. Hopkins

Inventor
J. W. Spurlock.
by A. B. Williamson & Co
Attorneys

UNITED STATES PATENT OFFICE.

JOHN W. SPURLOCK, OF VALDOSTA, GEORGIA.

WEIGHING-SCALE.

995,922. Specification of Letters Patent. **Patented June 20, 1911.**

Application filed January 3, 1911. Serial No. 600,624.

To all whom it may concern:

Be it known that I, JOHN W. SPURLOCK, a citizen of the United States, residing at Valdosta, in the county of Lowndes and State of Georgia, have invented certain new and useful Improvements in Weighing-Scales; and I do 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 scales.

One object of the invention is to provide a weighing scale having means whereby the desired quantity of goods to be cut from the piece is accurately ascertained before being cut off.

Another object is to provide a scale of this character which will be simple, strong and durable in construction efficient and reliable in operation and which is provided with means for conveniently moving the goods placed thereon to the proper position for cutting off the desired quantity.

With these and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a side view of my improved scale; Fig. 2 is an end view thereof; Fig. 3 is a top plan view; Fig. 4 is a vertical cross sectional view on the line 4—4 of Fig. 1.

Referring more particularly to the drawings, 1 denotes the base or supporting plate of the scale on which, near one end are secured upwardly projecting bearing standards 2 having bifurcated upper ends 3 in which are formed grooves or notches 4. Pivotally supported on the standards 2 are substantially U-shaped platform supporting bars 5 on the lower ends of which are formed laterally projecting triangular pivot lugs 6 one edge of which engages the groove 4 in the bifurcated ends of the standards 2 whereby said supporting bars 5 have a knife edge engagement with said standards. On the upper ends of the standards 5 are formed oppositely projecting right angular attaching arms 7. The arms 7 of one member of the supporting bars 5 is bolted or otherwise secured to one end of the goods supporting platform 8 while to the arms 7 of the other members of the bars 5 is bolted or otherwise secured a shelf 9 the purpose of which will be hereinafter described. The shelf 9 is slightly lower than the platform 8 and between the adjacent edges of the shelf and platform is formed a narrow space 10 the purpose of which will also hereinafter appear.

The opposite end of the platform 8 from the end supported on the standards 2 is supported by means of a link 11 the upper end of which is pivotally connected to the end of the platform and the lower end of which is pivotally engaged with a lever 12 arranged near the lower platform 1 and pivotally connected at one end to a bracket 13 which is secured to the platform 1 as shown. The opposite end of the lever 12 is loosely engaged with a hanger 14 on the upper end of which is formed a hook 15 which is loosely engaged with a loop 16 on the upper ends of which are formed hooks 17. The hooks 17 are engaged with triangular laterally projecting lugs 18 formed on the outer end of a balance beam 19 arranged above and adjacent to one side of the platform 8 as shown. The balance beam 19 is provided adjacent to its outer end with laterally projecting triangular bearing studs 20 which are engaged with the bifurcated upper end of a supporting standard 21 the lower end of which is secured to the platform 1 as shown. The inner end of the balance beam 19 is loosely connected by a link 22 to the platform 8 adjacent to the pivoted end of the same as shown and permits the end of beam 19 to play up and down sufficiently to indicate when the platform 8 is balanced. On the bar 19 are slidably mounted counterbalancing weights 23 which are adapted to be adjusted to balance the platform 8 as will be hereinafter more fully described. On the platform 8 adjacent to one edge of the same is secured an upwardly projecting bearing frame 24 comprising end standards 25 and a horizontally disposed bar 26. On the bar 26 is slidably mounted a supporting plate 26′ to the lower end of which is loosely connected the upper end of a beam supporting rod or hanger 27 the lower end of which is loosely connected to a scale beam 28 whereby said beam is slidably supported on the cross bar 26 of the frame 24. The hanger 27 is connected to the beam 28 near one end of the latter and said short end of the beam is provided with a bifurcated head

29 in the arms of which are formed notches 30 whereby said head is slidably engaged with the upper cross bar 31 of a fulcrum frame, the end bars or standards 32 of which project downwardly and are secured at their lower ends to the base 1 as shown. On the beam 28 is arranged the balancing weight or pea 33 of the beam. On the outer end of the beam is arranged the usual weight support or hanger 33′.

Revolubly mounted in suitable bearings 34 secured to the under side of the platform 8 is a goods projecting shaft 35 said shaft being arranged transversely beneath the platform near the delivery end of the same as shown. Fixedly mounted on the shaft are toothed wheels 36 the upper portions of which work through slots 37 formed in the platform 8. The upper portion of the wheels project a slight distance above the top of the platform 8 and are adapted to engage a piece of meat or other goods placed on the platform. One end of the shaft 35 projects beyond one side of the platform and on said projecting end of the shaft is secured a crank arm 38 by means of which the shaft is operated. The crank arm 38 extends on both sides of the shaft 35 and on the end of the arm opposite to the handle is arranged a balancing weight or ball 39. The crank arm 38 is adjustably secured to the outer end of the shaft 35 by a set screw or other suitable fastening means 40.

Secured to one side of the platform at the delivery end thereof and adjacent to the space between said end and the platform is a saw guide 41 with which the saw or cleaver is engaged for cutting the desired quantity of goods from the piece on the platform.

Arranged on the base plate 1 adjacent to the end of the platform 8 to which the link 11 is attached is arranged a stop bar 42 by means of which the platform 8 is supported when swung down by the weight of the goods placed thereon.

My improved scale is primarily intended for weighing quantities of meat before the same are cut from the piece, thus providing for accurately cutting the exact quantity desired.

In the operation of the scale the piece of meat or other goods is placed on the platform 8 with one end of the meat at the end of the platform adjoining the space 10 between the platform and shelf. When the meat has thus been placed on the platform the scale beam 28 is shifted back on the bar 31 of its supporting frame until the beam is opposite to or even with the inner end of the meat. After thus adjusting the scale beam the weights 23 are adjusted on the beam until the platform with the meat thereon balances on the supporting standards 2. The pea or weight 33 on the scale beam 28 is then adjusted to the number of pounds it is desired to cut off from the piece of meat. In thus adjusting the pea or weight the platform is of course overbalanced to the number of pounds indicated by the pea. After adjusting the weight on the scale beam the shaft 35 of the shifting wheels 36 is operated in the proper direction to cause the toothed wheels 36 to feed or project the piece of meat beyond the delivery end of the platform 8 and over the shelf 9 until the platform 8 is again balanced which will indicate that the number of pounds indicated by the position of the pea on the scale beam is projecting beyond the platform whereupon said projecting end of the meat is sawed or cut off from the piece and rests on the shelf 9. By this arrangement it will be readily seen that the exact quantity of meat or other goods desired may be accurately cut from the piece thus preventing waste or the accumulation of small scraps which occurs in the present manner of cutting meat. By constructing the supporting bars 5 of the platform and shelf as herein shown and described a space is provided to receive the saw or cleaver after the same has passed through the meat in cutting off the piece from the end of the same.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

Having thus described my invention, what I claim is:

1. In a scale of the character described, a supporting base, a goods receiving platform and shelf pivotally supported on said base, a platform balancing mechanism adapted to balance when the goods are placed thereon, a weight indicating mechanism connected to said platform and adapted to indicate the amount to be cut from the goods, means to project the goods beyond the platform, and means to support the projected end thereof whereby the weight of said projected end is removed from the platform and the latter thereby permitted to balance thus indicating the quantity to be cut from the piece according to the number of pounds indicated on the weighing mechanism.

2. A weighing scale of the character described comprising a supporting plate, a goods supporting platform pivotally mounted on said plate, a shelf also pivotally mounted on the supporting plate adjacent to the delivery end of said platform and spaced a suitable distance therefrom, a balancing beam pivotally supported above said plat-

form and having an operative connection therewith, balancing weights slidably mounted on said beam and adapted to balance the platform and goods thereon, a slidably supported scale beam operatively connected to said platform, a balancing weight or pea slidably mounted on said beam whereby the quantity desired to be cut from the goods on the platform is indicated and the platform thus overbalanced to the extent of the weight of this quantity and means to shift the goods beyond the delivery end of the platform and onto said shelf until a sufficient quantity of the goods have been shifted onto the shelf to cause the platform to again balance thereby indicating the quantity of goods to be cut from the piece.

3. A weighing scale of the character described comprising a supporting plate, a goods receiving platform and a goods receiving shelf pivotally supported on said base plate, a platform supporting lever pivotally connected at one end of said plate, a link to connect said platform with said lever, a beam supporting standard secured to said base plate, a balancing beam pivotally mounted on said standard, a link to connect one end of said beam with said lever, a link to connect the opposite end of the beam with said platform, balancing weights slidably mounted on said beam and adapted to balance the platform and goods thereon, a stop to limit the downward movement of said platform, a slidably supported weight indicating beam, operatively connected to the platform, a pea slidably mounted on said beam and adapted to overbalance the platform to the extent of the quantity desired to be removed from the goods on the platform, and means to project the goods from the platform onto said shelf until the weight of the goods thus projected is equal to the number of pounds indicated by the pea on the scale beam and the platform again balanced.

4. A weighing scale comprising a supporting base, a goods receiving platform pivotally mounted on said base, a shelf connected to and spaced a suitable distance from one end of said platform, a stop to limit the downward movement of the platform, a beam supporting standard secured to said base, a balancing beam pivotally supported on said standard, means to operatively engage said beam with said platform whereby the latter and the goods placed thereon are balanced, a beam supporting frame connected to said platform, a fulcrum frame secured to said base, a scale beam slidably and pivotally connected to said supporting frame and having one end pivotally and adjustably engaged with said platform frame, a pea slidably mounted on said beam and adapted to be adjusted to indicate the quantity of goods desired to be cut from the piece on the platform and to thereby overbalance the platform to the extent of this quantity and means to project the goods beyond the delivery end of the platform and onto the shelf until the weight of the projected end of the goods counterbalances the pea on the scale beam thereby permitting said platform to again balance.

5. A weighing scale of the character described, comprising a supporting base, standards arranged on said base adjacent to one end, U shaped supporting bars pivotally engaged with said standards, a supporting platform secured to one arm of said U shaped bars, a shelf secured to the other arm thereof and spaced a suitable distance from the adjacent end of the platform to permit the passage of the implement in cutting the goods on the platform, said U shaped bars also providing space to accommodate said implement, a balancing mechanism adapted to balance said platform, and the goods contained thereon, a weight indicating mechanism connected to said platform and adapted to indicate the quantity of goods to be cut from the piece on the platform, means to project the piece of goods beyond the delivery end of the platform and onto said shelf, said means comprising a shaft revolubly mounted on the under side of the platform, toothed goods engaging wheels fixedly mounted on said shaft and projecting through said platform and into engagement with the goods thereon and a crank arm arranged on one end of said shaft whereby said wheels are operated and the goods thus shifted on the platform.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN W. SPURLOCK.

Witnesses:
BARNEY H. BRINSAN,
CHAS. W. BRAY.