

(No Model.)

2 Sheets—Sheet 1.

J. O. BOGGS.

SCALE.

No. 265,375.

Patented Oct. 3, 1882.

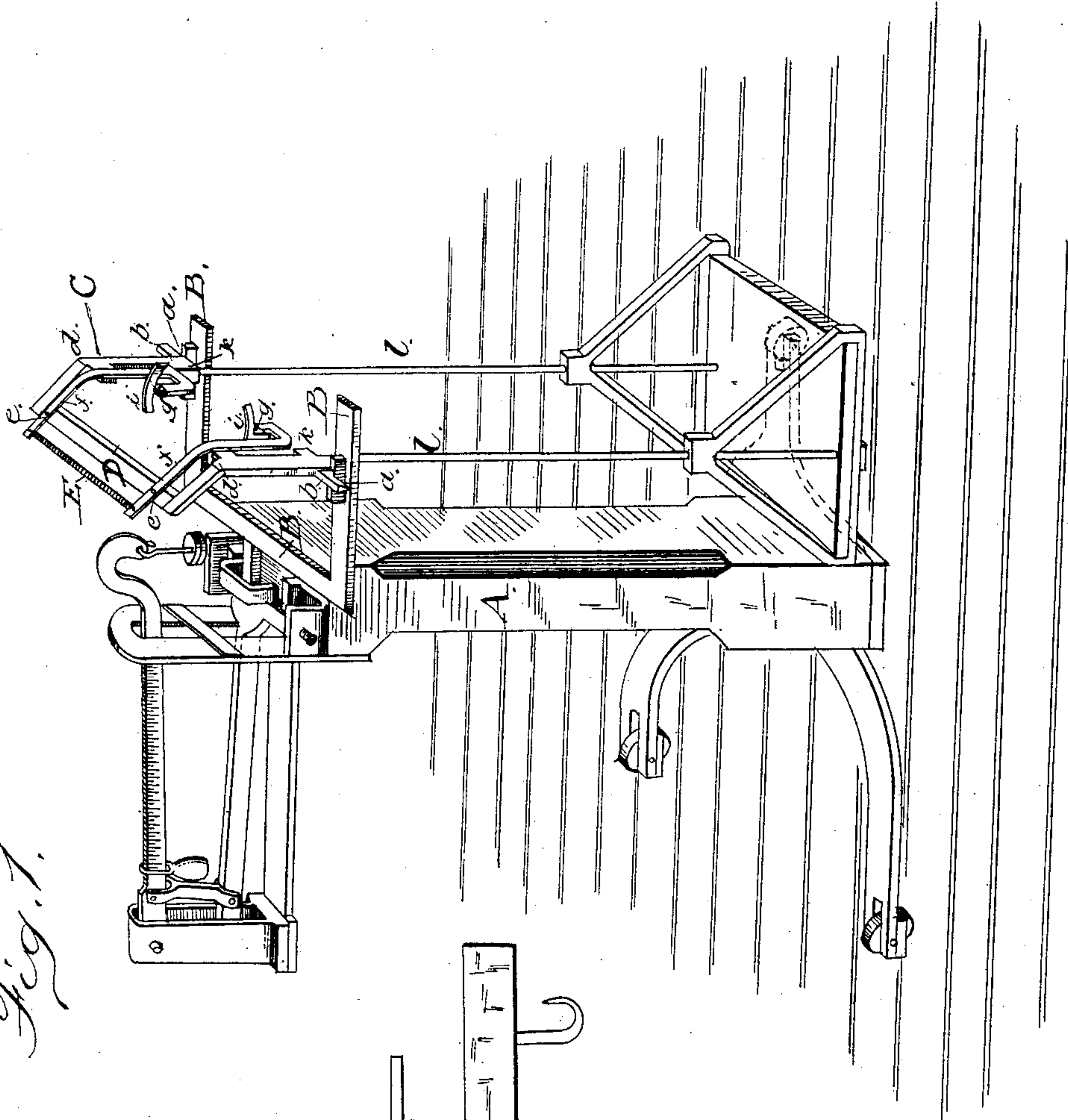
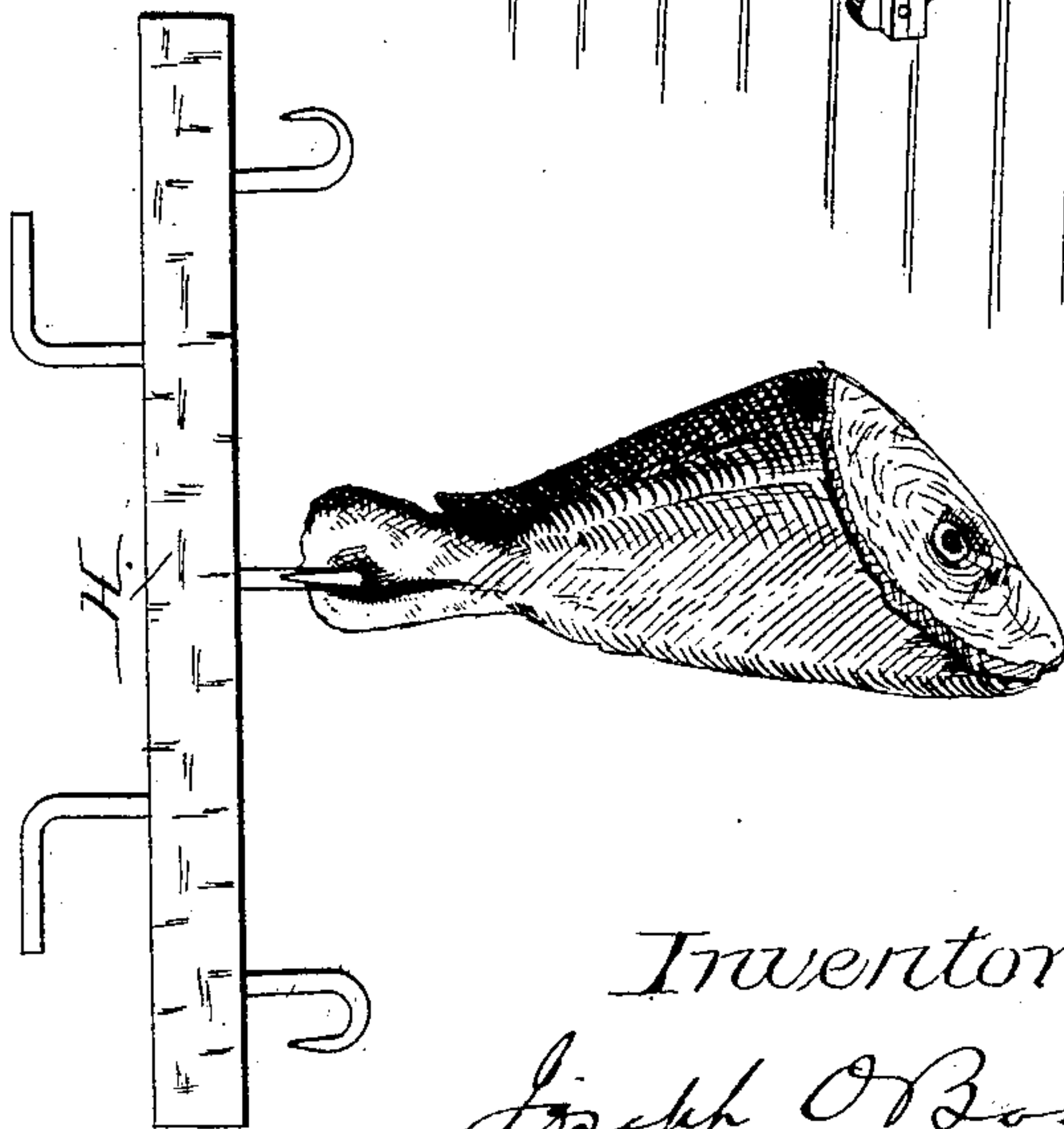


Fig. 1.

Fig. 4.



Witnesses;

*Charles Fowler,
H. B. Applebait,*

Inventor;

*Joseph O. Boggs
per attys.
A. H. Evans & Co*

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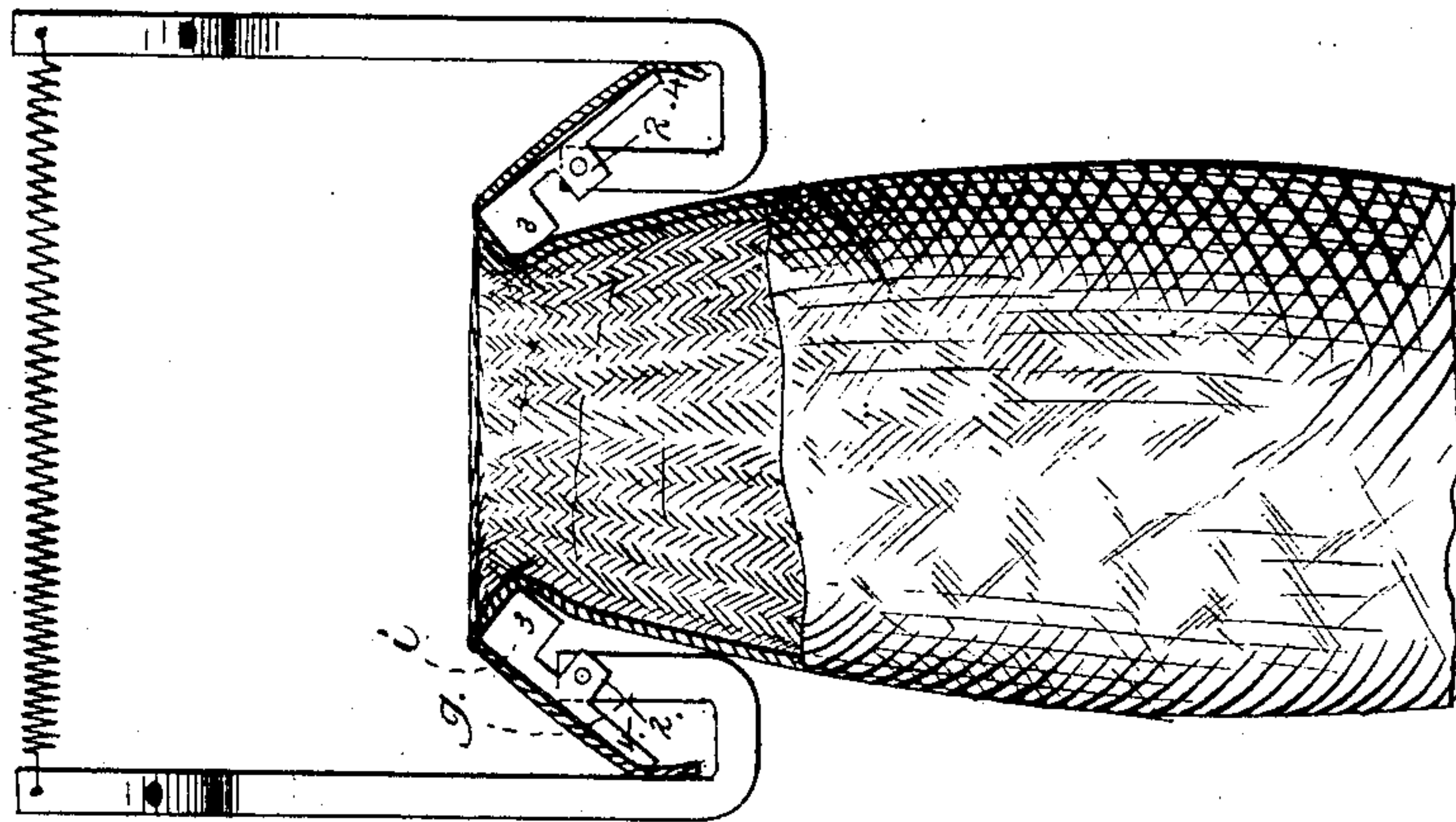


Fig. 1.

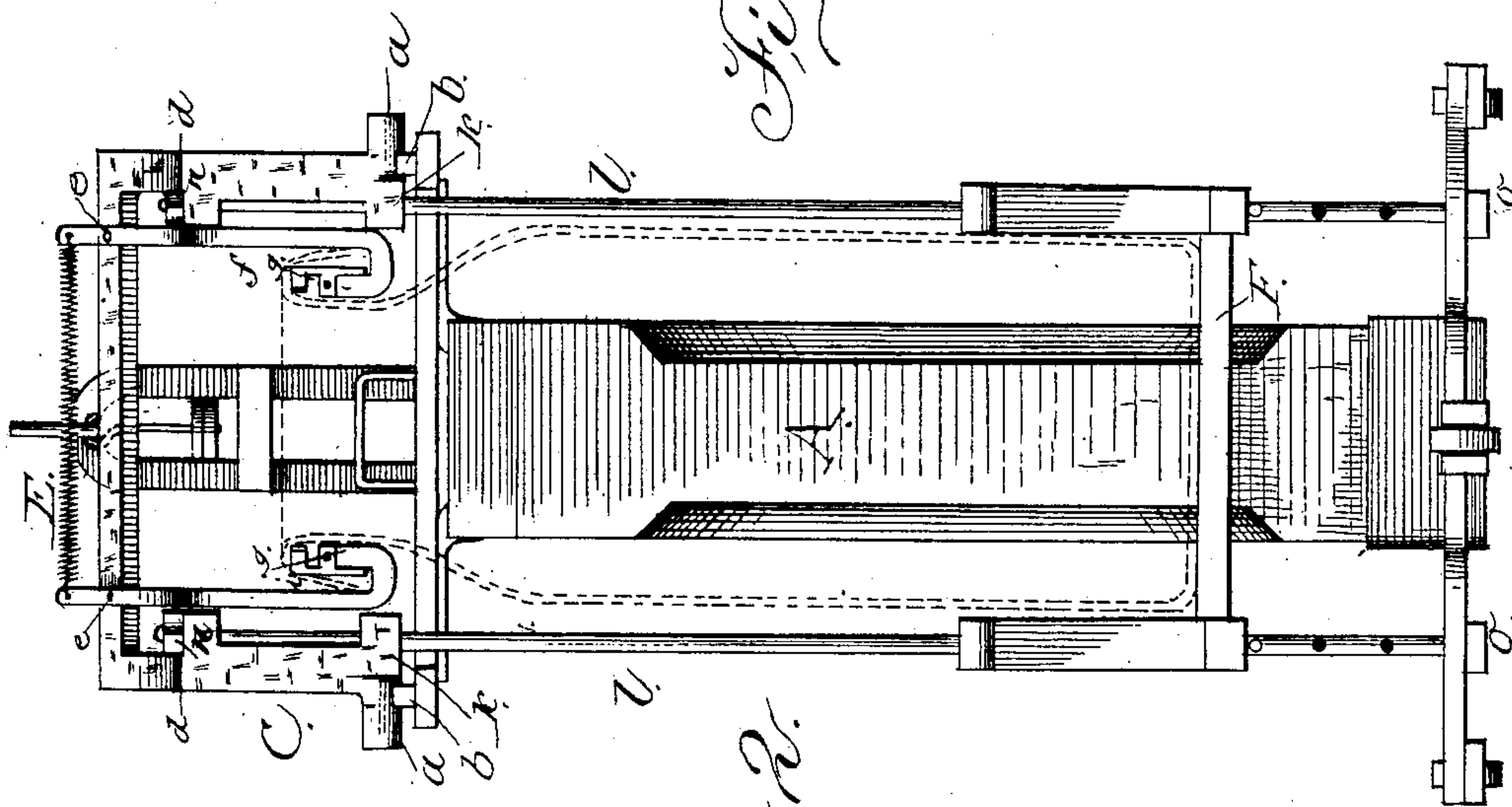


Fig. 2.

Witnesses;

Shafter Fowler,
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Inventor;

Joseph O. Boggs
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A. H. Eouns & Co.

UNITED STATES PATENT OFFICE.

JOSEPH O. BOGGS, OF HARRISBURG, PENNSYLVANIA.

SCALE.

SPECIFICATION forming part of Letters Patent No. 265,375, dated October 3, 1882.

Application filed June 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH O. BOGGS, of Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented certain
5 Improvements in Weighing-Scales; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

10 Figure 1 is a perspective view of the scale and attachments. Fig. 2 is a front elevation, showing a bag in position to receive grain. Fig. 3 is a cross-section showing the bag-holding device in operation. Fig. 4 is a view of
15 the beam for holding heavy articles.

My invention relates particularly to a scale adapted to weigh grain as it is being bagged, and has for its object to facilitate the handling, weighing, and bagging of grain.

20 My invention consists in sundry details of construction, as hereinafter fully described, and specifically pointed out in the claims.

In order that those skilled in the art may make and use my invention, I will proceed to
25 describe the manner in which I have carried it out.

In the said drawings, A is the standard or post of the scales, on the top of which, in suitable adjustable bearings, is pivoted the counterpoise-bar, which may be compound or not, as desired. The butt of the counterpoise-bar is spread into two arms, which form a yoke, B, on each arm of which is a pivot-bearing, *a a*. A vertical swinging yoke, C, is provided
35 with knife-edge studs or projections *b b*, which rest in bearings *a a*, and serve to suspend yoke C, the top cross-bar of which is thrown back out of a vertical line by the upright sides being somewhat bent at *d d*, as shown. Pivoted
40 on the said cross-bar at *e e* are two depending fingers or bars, *f f*, the upper ends of which are joined by a coiled spring, E, and the lower ends of which are turned up in sharp bights *g g* to sustain on their ends pivoted bag-holders
45 *i i*. These bag-holders *i i* are made from pieces of metal struck as seen in Fig. 3, and are then pivoted to the fingers or bars *f* by means of the ears 2 2, the cross-plates 3 3 lying just above the turned-up ends of fingers
50 *f f* and the downwardly-projecting plates 4 4 lying in the bight. Through studs *k k* on the inner sides of yoke C pass vertical adjustable bars *l l*, which support a small platform, F, designed to receive the bottom of the bag, so

the entire weight will not rest on the holders
i i. In order to raise and lower this platform, that it may be adapted to different lengths of bags, the upper ends of rods or bars *l l* are threaded to receive nuts *n n*, whereby the length of the said rods below yoke C may be
60 controlled. The bars *l l* extend through platform F and below the fastening-points and terminate in feet *o o*, so that when the scale-beam descends they come in contact with the floor or the ground and take up the thrust.
65 The platform may also be adjusted by means of pins passing through the bars below the platform. The mouth of the bag is folded outwardly over cross-plates 3 3, and the selvage is passed below the lower ends of the downwardly-projecting plates 4 4, and upon being
70 released the weight of the bag throws the lower ends of bars 4 4 outward and binds the selvage against fingers *f f* and sustains the bags while being filled, except in so far as the
75 weight is sustained by the bottom of the bag resting on platform F. The spring E allowing the lower ends of the bars *f f* to approach each other results in the grips adjusting themselves to any width of bag, and instead of
80 holding the front part of the bag in a straight rigid line allows it to yield to any shape of a measure used in filling.

The bar H is designed to be used in conjunction with this scale for weighing any article which will not lie on the platform, as a quarter of beef or whole pork. (See Fig. 4.)

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

1. The counterpoise-bar provided with the yoke B, having bearings *a a*, in combination with the vertical swinging yoke C, having its upper portion bent out of the plane of the main body of said yoke and provided with
95 knife-edge projections *b b*, and carrying a bag-holding device, substantially as and for the purpose set forth.

2. The counterpoise-bar and yoke C, in combination with depending fingers *f f*, pivoted to cross-bar D at *e e*, their upper ends connected by spiral spring E, and bearing on their lower ends a clamp, 2 3 4, substantially as described.

JOSEPH O. BOGGS.

Witnesses:

JAMES SWENEY,
M. R. BROWN.