

(No Model.)

2 Sheets—Sheet 1.

A. TAYLOR.
WEIGHING SCALE.

No. 387,931.

Patented Aug. 14, 1888.

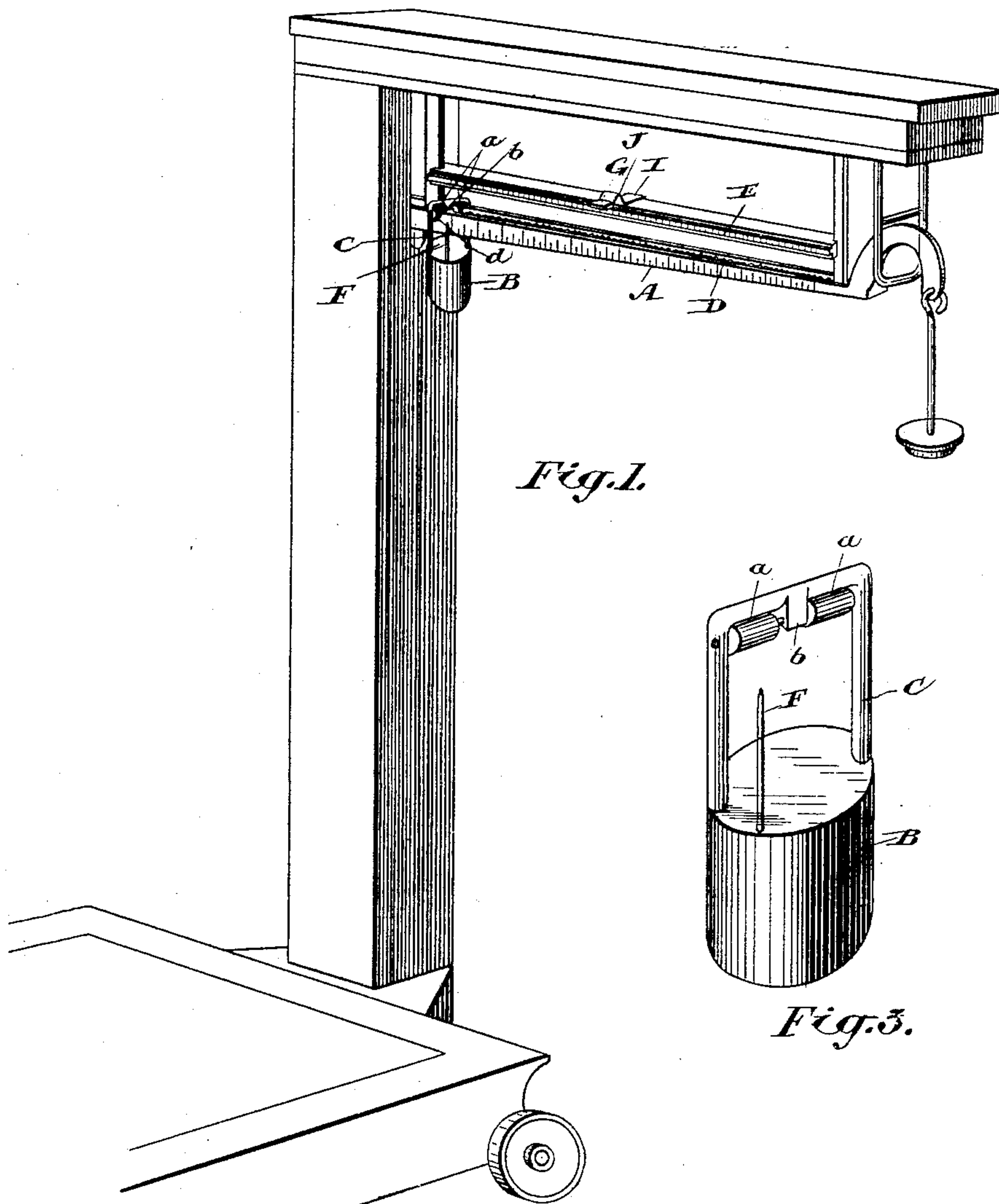


Fig.1.

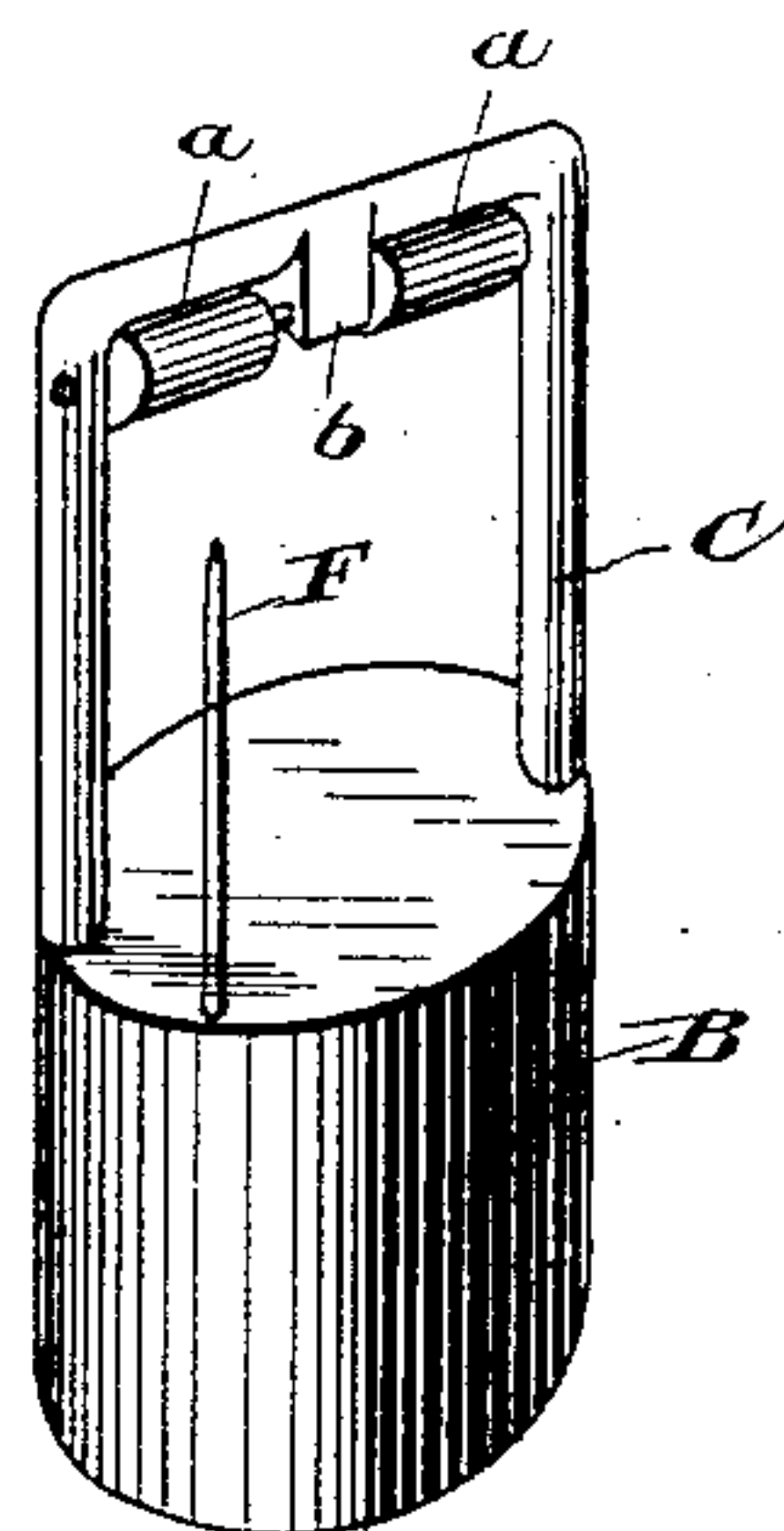


Fig. 3.

Witnesses.
J. B. Fessenden & Laughr.
Chas H Riches.

Inventor:
Arthur Taylor.
by Small C. Ridout & Co.
Attys

(No Model.)

2 Sheets—Sheet 2.

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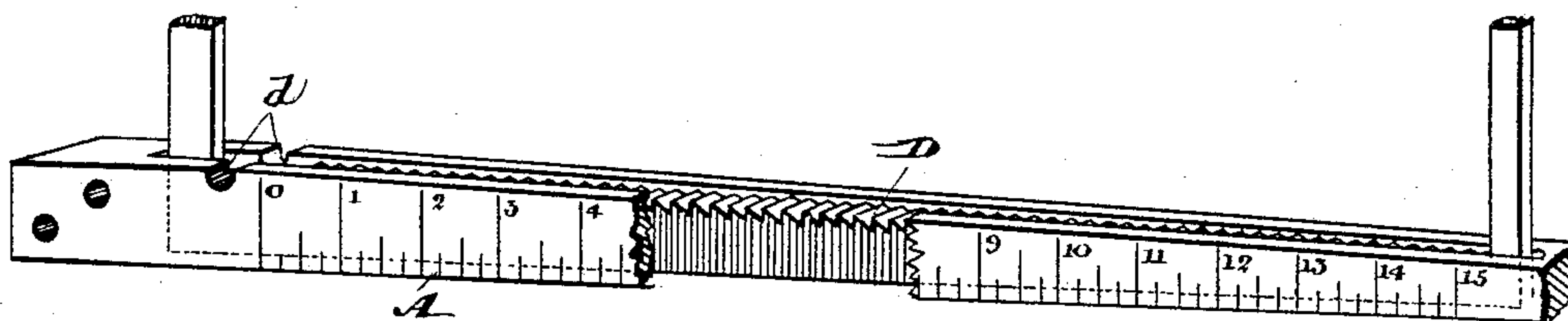


Fig. 2.

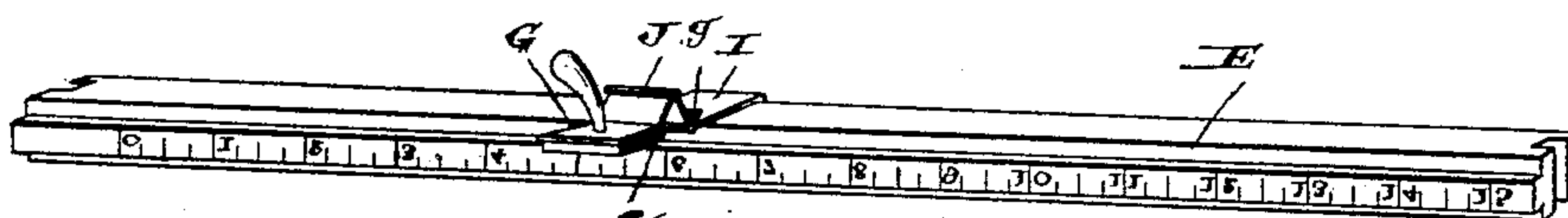


Fig. 4

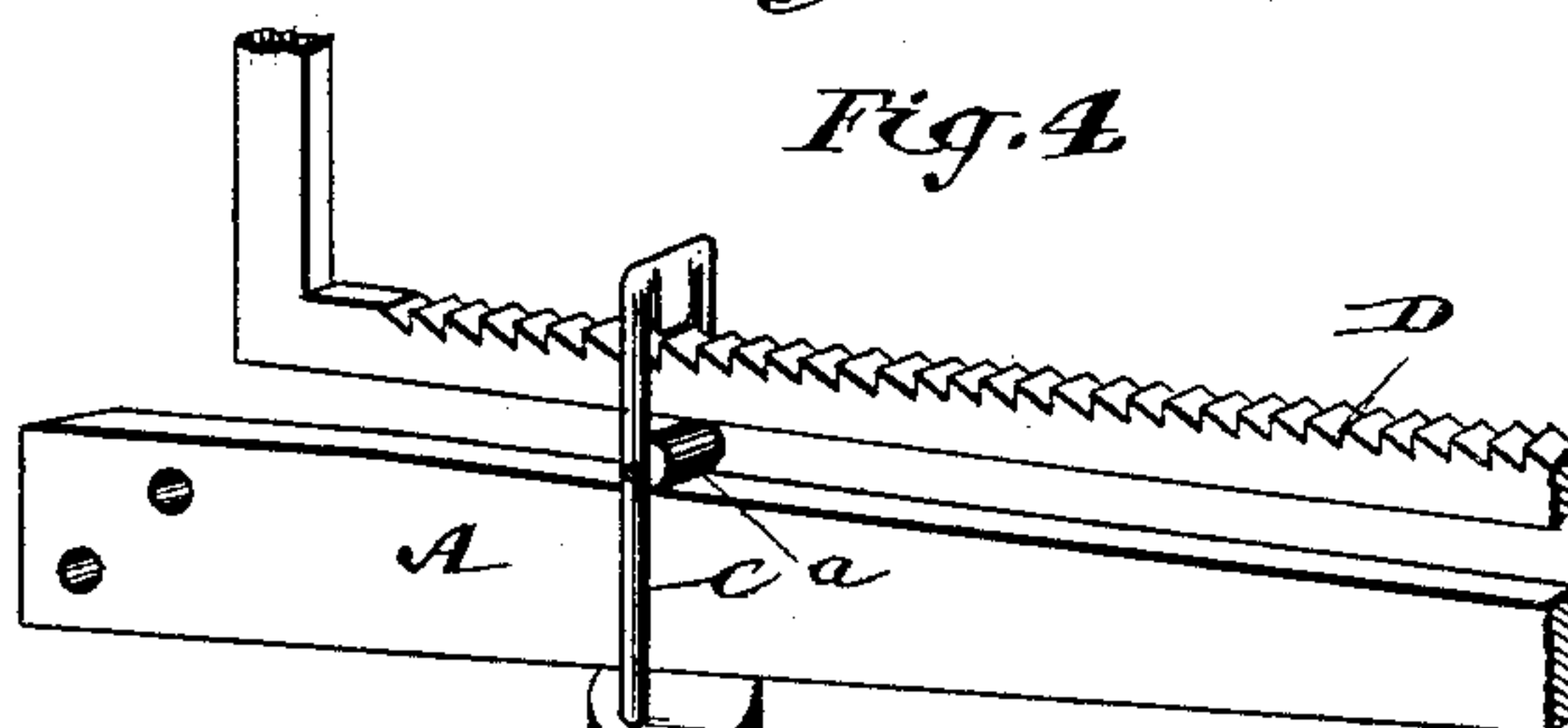


Fig. 5.

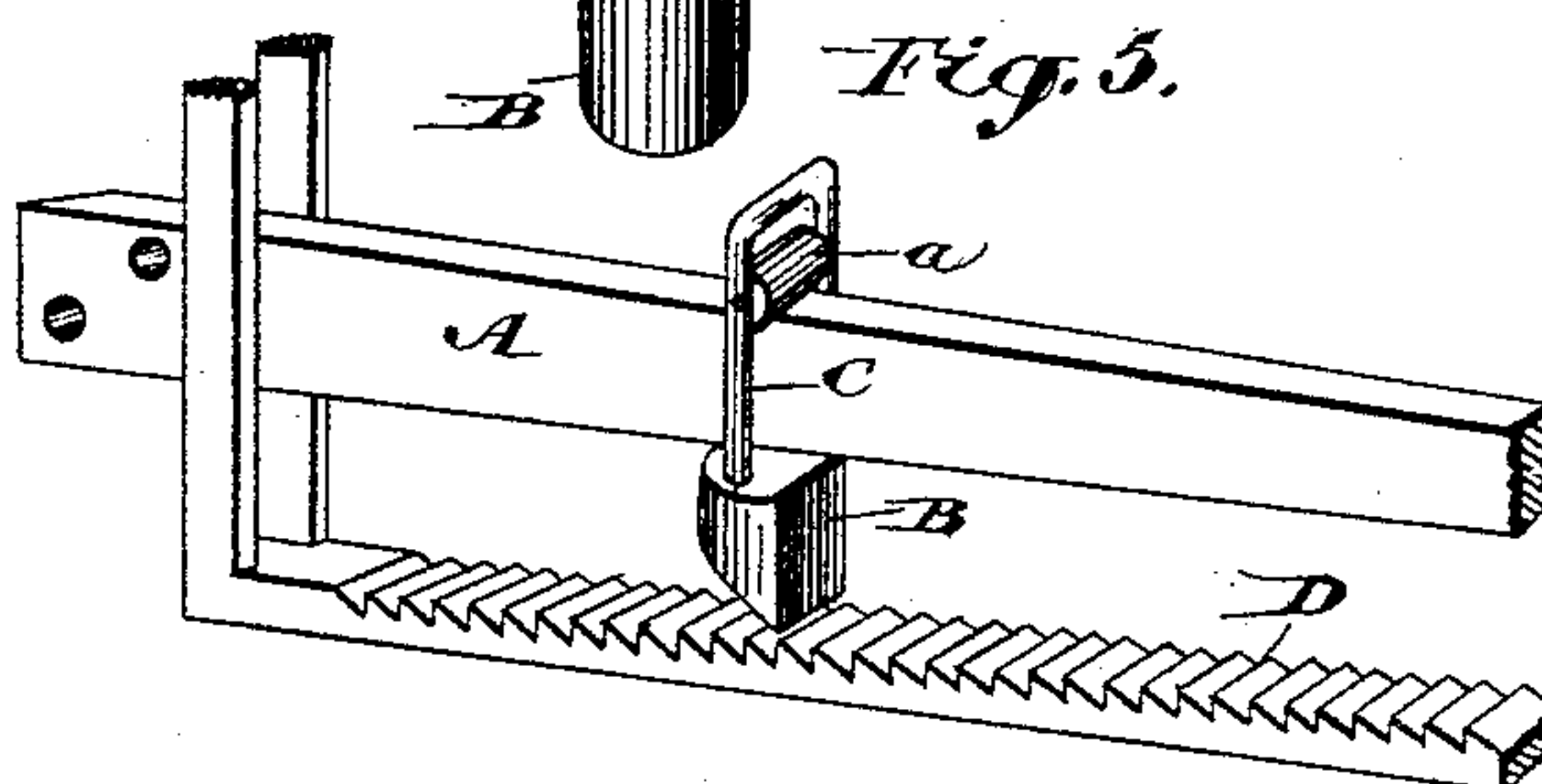


Fig. 6.

Witnesses.

L. B. Fesherstonhaugh.

Chas. H. Riches.

Inventor.

Arthur Taylor.

by Donald C. Ridout Esq.

Atty

UNITED STATES PATENT OFFICE.

ARTHUR TAYLOR, OF TORONTO, ONTARIO, CANADA, ASSIGNOR OF ONE-HALF TO WILLIAM STONE, OF SAME PLACE.

WEIGHING-SCALE.

SPECIFICATION forming part of Letters Patent No. 387,931, dated August 14, 1888.

Application filed October 20, 1887. Serial No. 252,913. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR TAYLOR, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Weigh-Scales, of which the following is a specification.

The primary object of the invention is to design a device to operate in connection with the balance-beam of a weigh-scale, by which the adjusting-weight of the beam will be automatically operated and will readily record the weight of the article placed upon the scale; and it consists in the peculiar combinations and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described and claimed.

Figure 1 is a perspective view of a scale provided with my improved attachments. Fig. 2 is an enlarged detail of the balance-beam and its attachment. Fig. 3 is an enlarged detail of the adjustable weight. Fig. 4 is an enlarged detail of the printing-bar and its attachments. Figs. 5 and 6 are alternative forms. A represents the balance-beam of an ordinary scale, and B the adjustable weight. The weight B is suspended from the beam A by a bail, C, in which I journal a suitable roller or rollers, *a*, designed to rest upon the top edge of the beam A, as shown.

In Figs. 1 and 2 I show a longitudinal slot made in the beam A, into which slot the notched bar D is inserted. This bar is made stationary, and its notches are made to correspond with the marks on the beam A. The top edge of the beam A is made on an incline sloping toward its outer end. When the rollers *a*, which support the weight B, are placed on the top edge of the beam A, they will, owing to its incline, roll toward the outer end of the beam A, carrying with them the weight B. When the adjustable weight B, thus carried, reaches a point in the beam A where it will counterbalance the weight on the scale, the beam A will of course tilt on its pivot, and the tongue *b*, formed on the bail C, will instantly engage with one of the notches formed in the bar D, and in this way the movement of the weight B will be instantly checked at the point on the scale which will indicate the weight of the article being weighed.

It will be of course understood that the beam A is so arranged that its top edge will be on an incline even when the load is on the platform and the beam up.

In order to hold the weight B stationary and ready for use I form a notch or notches, *d*, near the pivot end of the beam A, the said notch or notches being formed to receive the roller *a*, as indicated in Fig. 1.

Although I think it preferable to place the bar D in the position in which it is indicated in the figures just described; it will be understood that its position may be varied considerably without departing from my invention—for instance, in Fig. 5 I show the notched bar D located above the beam A, and in Fig. 6 I show the notched bar D below the balance-beam A.

In order to have ready means for keeping a record of the articles weighed I provide a bar, E, above or below the beam A, and on this bar I form a series of raised letters and indicating-points to correspond with the indicating-marks on the beam A, and I place a pointer, F, on the weight B. On this bar E, I adjustably suspend the platen G. The plate I, which rests on and is supported by the bar E, is connected to the platen G by the double-hinged plates J. When it is desired to take a record of the number indicated by the pointer F, the plate I is adjusted so as to bring the platen G immediately over the indicated number on the bar E, which number I then ink by placing on it the inking-plates J, which I keep inked for that purpose. I then hook the pivots *e*, formed on the platen G, into the lug *g*, formed in the plate I, and, placing a piece of paper on the platen G, press it against the indicated number on the bar E, and thus secure the desired impression.

What I claim as my invention is—

1. In a beam-scale, an adjustable weight suspended on an inclined plane formed in the balance-beam, in combination with a stationary bar having notches formed in it to correspond with the indicating-marks in the beam, and a bail carrying the weight and having a tongue, substantially as and for the purpose specified.

2. An inclined scale-beam, A, and an adjustable weight, B, provided with a bail, C,

having one or more rollers, *a*, journaled in it and designed to rest upon an inclined plane formed in the beam A, in combination with the stationary bar D, having notches *d*, formed in it to correspond with the indicating-marks in the beam A, and designed to engage with the tongue *b*, formed in the bail C, substantially as and for the purpose specified.

3. An inclined scale-beam, A, an adjusting weight, B, provided with a bail, C, having a tongue, *b*, and designed to rest upon an inclined plane formed in the balance-beam A, and a pointer, F, to indicate the indicating-points on the beam A, in combination with a stationary bar, D, notched to correspond with the indicating-points in the beam A, and de-

signed to engage with the tongue formed in the bail C, substantially as and for the purpose specified.

4. A plate, I, the double-hinged plates J, and a platen, G, connected to the plate I by the double-hinged plates J, and having pivots *e* formed on it, in combination with the bar E, the lugs *g*, made in the plate I, which is adjustably supported by the bar E, having raised marks formed on its surface, substantially as and for the purpose specified.

Toronto, September 23, 1887.

ARTHUR TAYLOR.

In presence of—

CHARLES C. BALDWIN,
CHAS. H. RICHES.