

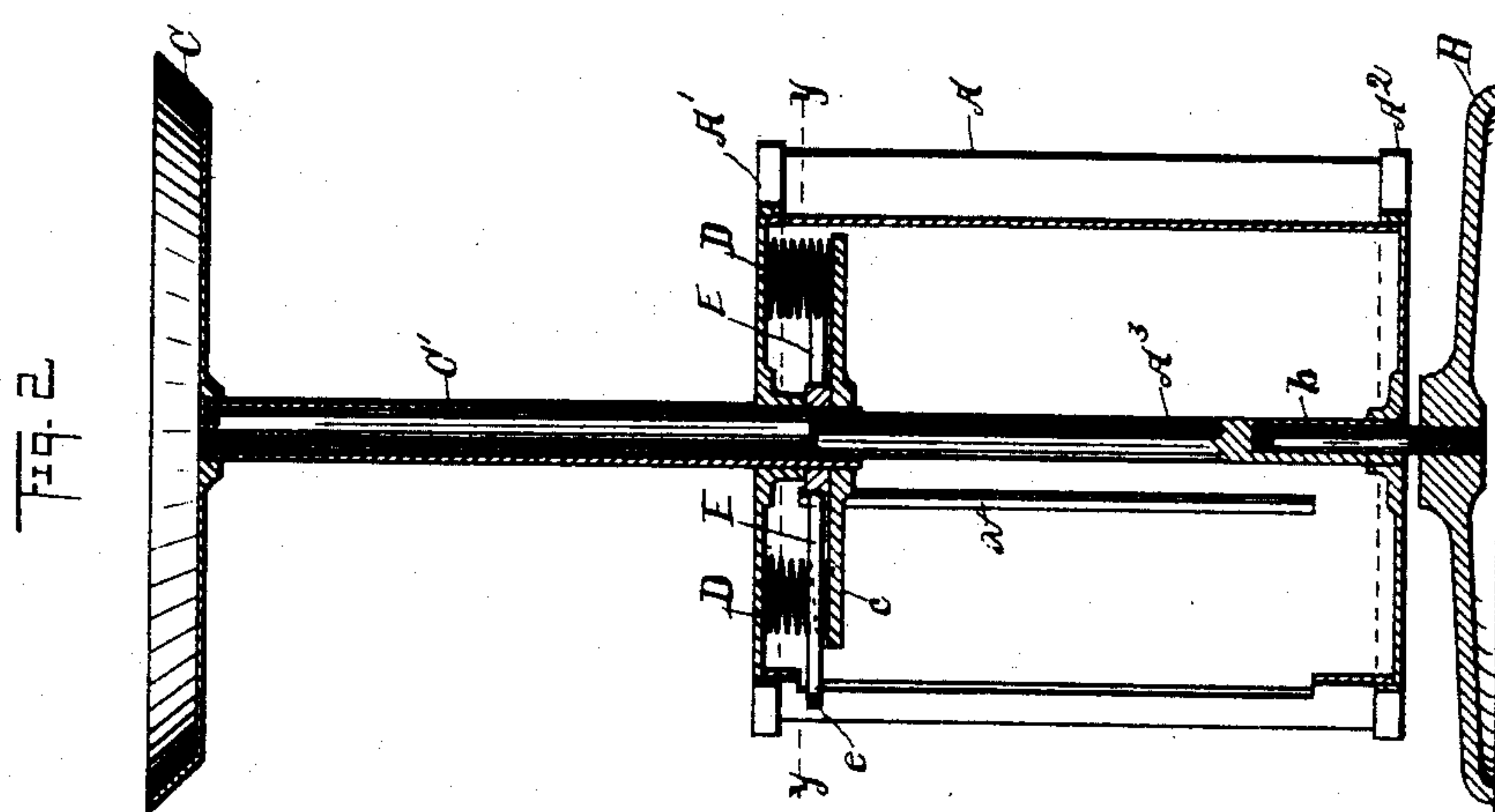
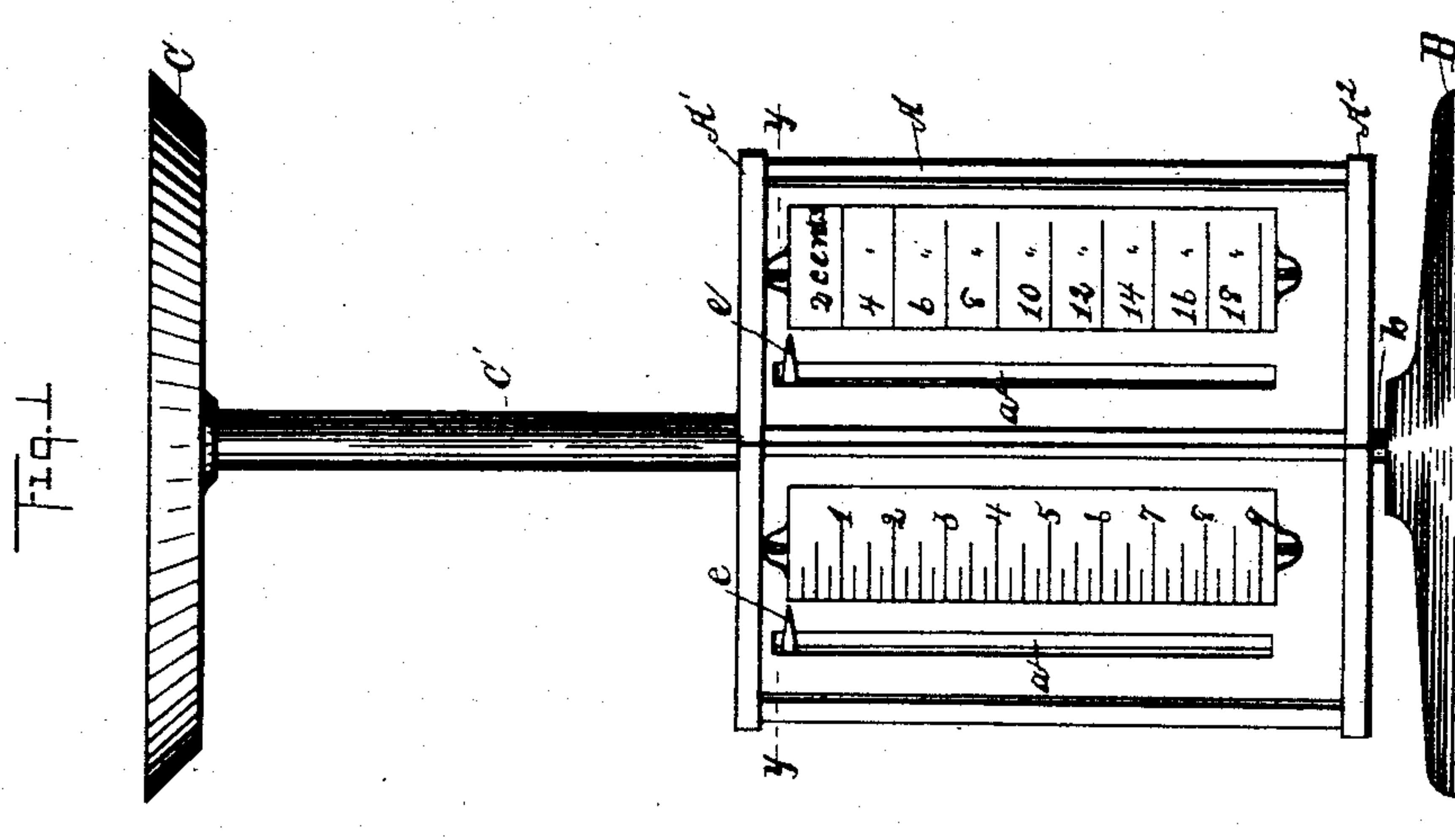
(No Model.)

2 Sheets—Sheet 1.

A. T. NYE, Jr. & H. B. NYE.
WEIGHING SCALES.

No. 414,242.

Patented Nov. 5, 1889.



Witnesses

B. S. Corrie.
Chas. R. Phillips.

Inventors.

By Anselm T. Nye, Jr.
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(No Model.)

2 Sheets—Sheet 2.

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FIG. 4

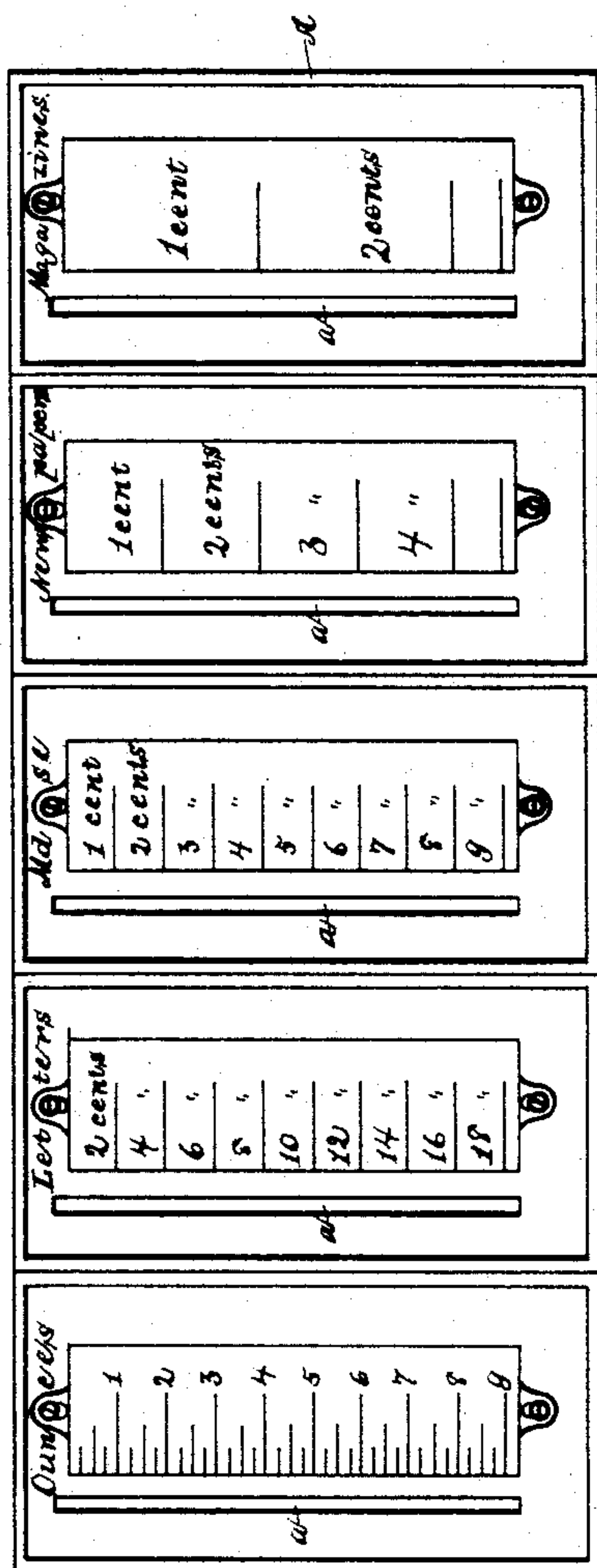
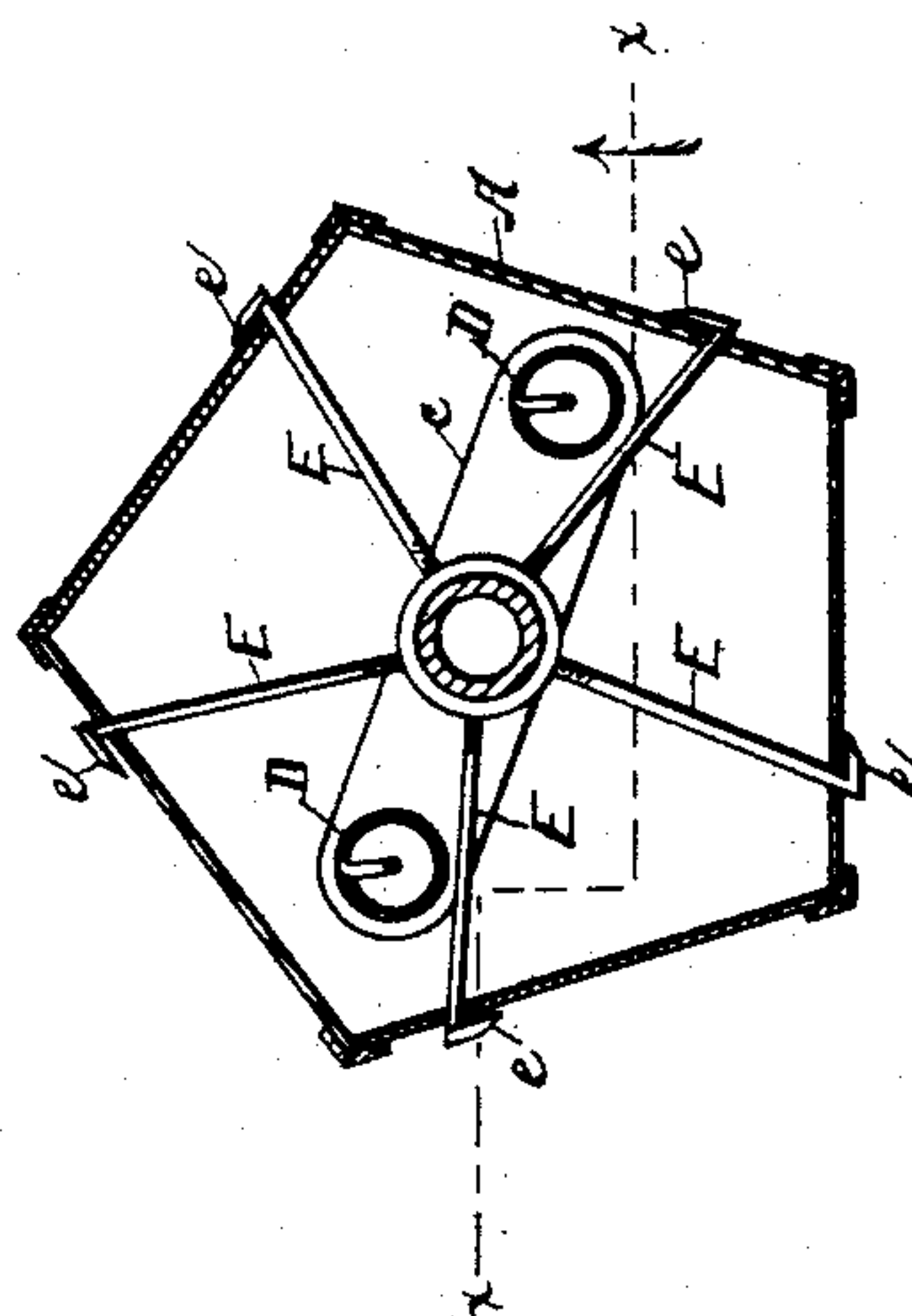


FIG. 3



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UNITED STATES PATENT OFFICE.

ANSELM T. NYE, JR., AND HAROLD B. NYE, OF CLEVELAND, OHIO.

WEIGHING-SCALES.

SPECIFICATION forming part of Letters Patent No. 414,242, dated November 5, 1889.

Application filed May 1, 1889. Serial No. 309,233. (No model.)

To all whom it may concern:

Be it known that we, ANSELM T. NYE, Jr., and HAROLD B. NYE, of Cleveland, in the county of Cuyahoga and State of Ohio, have
5 invented certain new and useful Improvements in Weighing-Scales; and we 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
10 it pertains to make and use the same.

Our invention relates to improvements in weighing-scales of the spring-balance variety, designed more especially for the postal service.

15 The invention consists, essentially, in a rotating casing polygonal in plan and having detachable registering-scales mounted on the respective faces thereof, the different scales being numbered and graduated, respectively,
20 to represent ounces and different rates of postage. A tray, platform, or suitable device is provided for holding the letter or other article to be weighed, such holder being operatively connected with a series of pointers, respectively, for the different scales, whereby,
25 by rotating the casing to bring the desired scale in front of the operator, the weight of the articles in ounces or the postage necessary, according to the classification of the article, is indicated by the pointer on the corresponding scale.

In the accompanying drawings, Figure 1 is a side elevation. Fig. 2 is an elevation in section. Fig. 3 is a horizontal section taken
35 above the pointers. Fig. 4 is an elevation showing the respective scales in detail.

A represents a casing polygonal in plan—for instance, a pentagon, as shown in the drawings—and having top and bottom heads,
40 respectively, A' and A². These heads need not necessarily be solid, as open heads or spiders would answer the purpose. The lower head A² has rigidly attached an upright rod A³, located centrally within the casing and
45 extending upward to near the upper head A'. The lower end of the rod is bored to fit nicely center pin *b* of the base B, by means of which construction the casing may rotate on its axis.

50 C is a tray, platform, or suitable holder, on which letters, books, merchandise, &c., are

respectively laid for weighing, to determine the postage to be paid thereon. Holder C is rigidly attached to the upper end of a sleeve or tube C', the bore of the latter fitting nicely
55 but easily around rod A³ aforesaid. Sleeve C' has also an easy fit in a central hole of the upper head A' of the casing. To the lower portion of sleeve C' is attached a cross-bar *c*, to which latter are attached the lower ends
60 of coil-spring D, the upper ends of these springs being attached to head A'. Operatively connected, directly or indirectly, with sleeve C' are a series of arms E, the same extending out through slots *a* of the casing,
65 these arms terminating outside the casing in pointers *e* to indicate on the adjacent scales.

We will remark that the arms E and the cross-bar *c* may be cast integral, so as to constitute a spider, or the arms may screw into
70 threaded holes of the hub of the cross-bar *c*, as shown. This, however, is a matter of construction that is not important, so long as the pointers move in unison with the holder C and the sleeve C'.
75

The different sides of the casing are provided with indicating-scales, such as are required in determining the weight and the amount of the postage necessary on different articles according to the classification of the
80 United States postal laws, and, as such laws are likely to be changed from time to time, the indicating-scales are detachably secured by screws or otherwise to the casing, so that other scales may at any time be substituted,
85 if need be. One scale may, as shown, be numbered and graduated to represent the weight of the article in ounces. Another scale represents the postage on letters according to the weight thereof. Another scale is
90 for merchandise, and still other scales are respectively for books, &c., and for magazines, each scale being numbered and graduated so that the pointer indicates the amount of postage due on the article according to its classification.
95 The scales are all marked on top, as shown, and the operator has only to turn the required scale in front of him and lay the article on the holder C, and the pointer will indicate the postage to be paid or the weight
100 of the article in ounces in case the ounce-scale is turned foremost.

The device is simple, inexpensive, and of little weight, the drawings being intended to represent the device approximately full size.

What we claim is—

5 1. A weighing-scale of the spring-balance variety, comprising a casing operatively connected with and supporting the weighing mechanism, such casing bearing a series of
10 indicating-scales graduated and numbered to indicate the weight in ounces and the necessary postage according to the weight and to the classification under the postal laws of the article being weighed, and pointers connected
15 with the weighing mechanism, such pointers being adapted to move in unison and to traverse the respective indicating-scales, substantially as set forth.

2. The combination, with a rotating casing polygonal in plan and having operatively

connected therewith a spring-balance, such casing having a series of indicating-scales, 20 substantially as indicated, such scales being attached to the respective sides of the casing, of a pointer for each scale, such pointers being connected in common with the spring-balance 25 mechanism, whereby the weight of the article and the necessary postage according to the classification of such article are indicated, substantially as set forth.

In testimony whereof we sign this specification, in the presence of two witnesses, this 30 11th day of March, 1889.

ANSELM T. NYE, JR.
HAROLD B. NYE.

Witnesses:

CHAS. H. DORER,
ALBERT E. LYNCH.