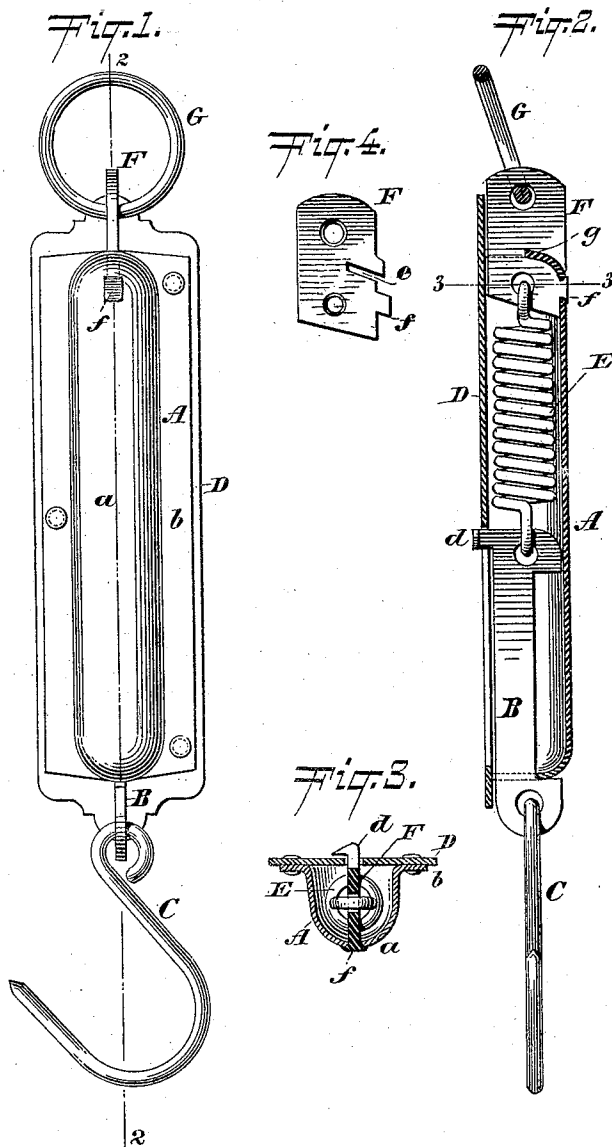


(No Model.)

J. P. CHATILLON.
SPRING SCALE.

No. 467,496.

Patented Jan. 26, 1892.



WITNESSES:

Gustave Dietrich
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INVENTOR

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UNITED STATES PATENT OFFICE.

JOHN P. CHATILLON, OF NEW YORK, N. Y., ASSIGNOR TO JOHN CHATILLON & SONS, OF SAME PLACE.

SPRING-SCALE.

SPECIFICATION forming part of Letters Patent No. 467,496, dated January 26, 1892.

Application filed November 23, 1891. Serial No. 412,737. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. CHATILLON, a resident of the city, county, and State of New York, have invented an Improvement in Spring-Scales, of which the following is a specification, reference being had to the accompanying drawings, forming part hereof, wherein—

Figure 1 is a back view of my improved spring-scale; Fig. 2, a longitudinal section thereof on the line 2 2, Fig. 1; Fig. 3, a cross-section on the line 3 3, Fig. 2. Fig. 4 is a detail side view of the upper carrying-plate.

This invention relates to a new construction of parts constituting the body or casing and load-carrying portion of a spring-scale; and it consists, mainly, of a carrying-piece combined with a stamped casing, said carrying-piece being notched to receive into the notch the upper portion of said casing, as herein-after more fully described.

In the accompanying drawings, the letter A represents the case proper of the spring-scale, the same being stamped, by preference, of a single piece of sheet metal, forming a rounded back *a*, with rounded ends and flanged sides *b*. An aperture is formed in the lower part of this case A to admit the follower B, from which the article to be weighed is suspended by means of a hook C or in any other proper manner. The front of the case A is riveted or otherwise connected to a face-plate D, which carries the usual scale, read by a pointer *d*, that extends through a slot in the face-plate from the follower B. The follower B is suspended from a spring E, which in turn is suspended from an upper carrying-plate F, and this in turn from a ring G or analogous contrivance. This upper carrying-plate F has two perforations, one for the reception of the spring and another for the reception of the ring G. The said upper carrying-plate F also

has an inclined notch *e* in its back edge, and beneath said notch a projecting lug *f*. Into the notch *e* enters the upper rounded portion *g* of the case A, as shown in Fig. 2, while the lug *f*, projecting from the upper carrying-plate F, passes through an aperture in the case A and is, when the parts are properly assembled, hammered down to form a rivet, as is clearly indicated in Fig. 2, the same figure showing that for the reception of the portion of the upper carrying-plate which lies between the notch *e* and the front edge of said plate the case A is apertured.

The construction of parts hereinabove specified is exceedingly simple and serves to relieve the case A and its face-plate D from any strain occasioned by suspending articles to be weighed from the follower B.

Having described my invention, I claim—

1. In a spring-scale, the upper carrying-plate F, having notch *e* and projection *f* along its back edge, combined with the casing A, adapted to enter the notch *e* and to receive the projection *f*, substantially as herein shown and described.

2. In a spring-scale, the combination of the stamped case A, having rounded central portion *a* and side flanges *b*, with the slotted face-plate D, follower B, spring E, and upper carrying-plate F, said upper carrying-plate having notch *e* to receive the upper part of the case A and projection *f*, which extends to the case A, the case A being perforated to admit the body of the carrying-plate F, which lies in front of the notch *e*, and to admit the projection *f* of the carrying-plate, and also to admit the follower B, all as and for the purpose herein shown and described.

JOHN P. CHATILLON.

Witnesses:

HARRY M. TURK,
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