

J. Chatillon.

Cast-Metal Case for Spring-Balance.
N^o 71980 *Patented Dec. 10, 1867.*

Fig. 3.

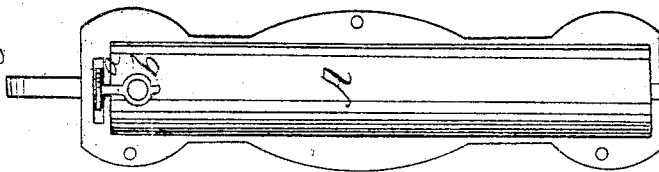


Fig. 2.

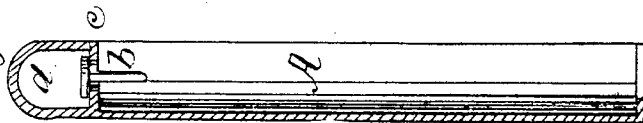
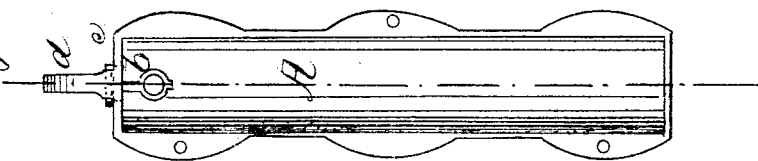


Fig. 1.



Witnesses

Thos Tweche
Wm Truitt

Inventor

John Chatillon
Per *immus* *Attorneys*

United States Patent Office.

JOHN CHATILLON, OF NEW YORK, N. Y.

Letters Patent No. 71,980, dated December 10, 1867.

IMPROVEMENT IN CAST-METAL CASES FOR SPRING-BALANCES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN CHATILLON, of the city, county, and State of New York, have invented a new and improved Cast-Metal Case for Spring-Balances; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a front view of my improved case for spring-balances.

Figure 2 is a vertical transverse section of the same.

Figure 3 is a front view of the ordinary cases now in use.

Similar letters of reference indicate corresponding parts.

This invention relates to a new manner of arranging the cast-metal cases for spring-balances, so that they can be made less expensive and simpler than any now made; and consists in fitting the pin, to which the upper end of the spring is secured, directly through the upper head of the case, instead of using an additional head in the case for that purpose. Thereby I am enabled to use a shorter case, which will be liable to hold a spring of the same length as the longer cases with the double upper heads now used; and I consequently economize metal in the manufacture of my cases, which is of great importance, when the great number of spring-balances made is considered.

A represents a cast-metal case for a spring-balance, made of suitable material, and of ordinary shape, but made without the additional head *a*, which is used in the ordinary cases for holding the pin *b*, as shown in fig. 3. The object of the pin *b* is to hold the upper end of the spring to which the weight is attached. In my improved case, the upper head *c* is slotted or perforated, and the pin *b* is inserted from above or from the side of its head, covering the perforation, as is clearly shown in fig. 2. It will be seen, that, to accommodate a spring of equal length as that used in the ordinary case, my case need only be as long from end to end as the old case is from the lower end to the partition *a*, and thus, the material necessary for the upper part of the ordinary case, is economized in the manufacture of my improved cases. *d* is the bow or perforated lug, projecting from the upper head *c*, in the ordinary or in any suitable manner. It will be noticed that my improved case, with both heads and with the lug *d*, is cast of one piece.

I claim as new, and desire to secure by Letters Patent—

A cast-metal case for spring-balances, when provided with a perforated or slotted upper head for the reception of the pin *b*, and when made substantially as and for the purpose herein shown and described.

JOHN CHATILLON.

Witnesses:

WM. F. McNAMARA,

ALEX. F. ROBERTS.