

A. B. Davis.

Box or Case for Scale-Beams

Nº 76169

Patented Mar. 31, 1868

Fig. 1.

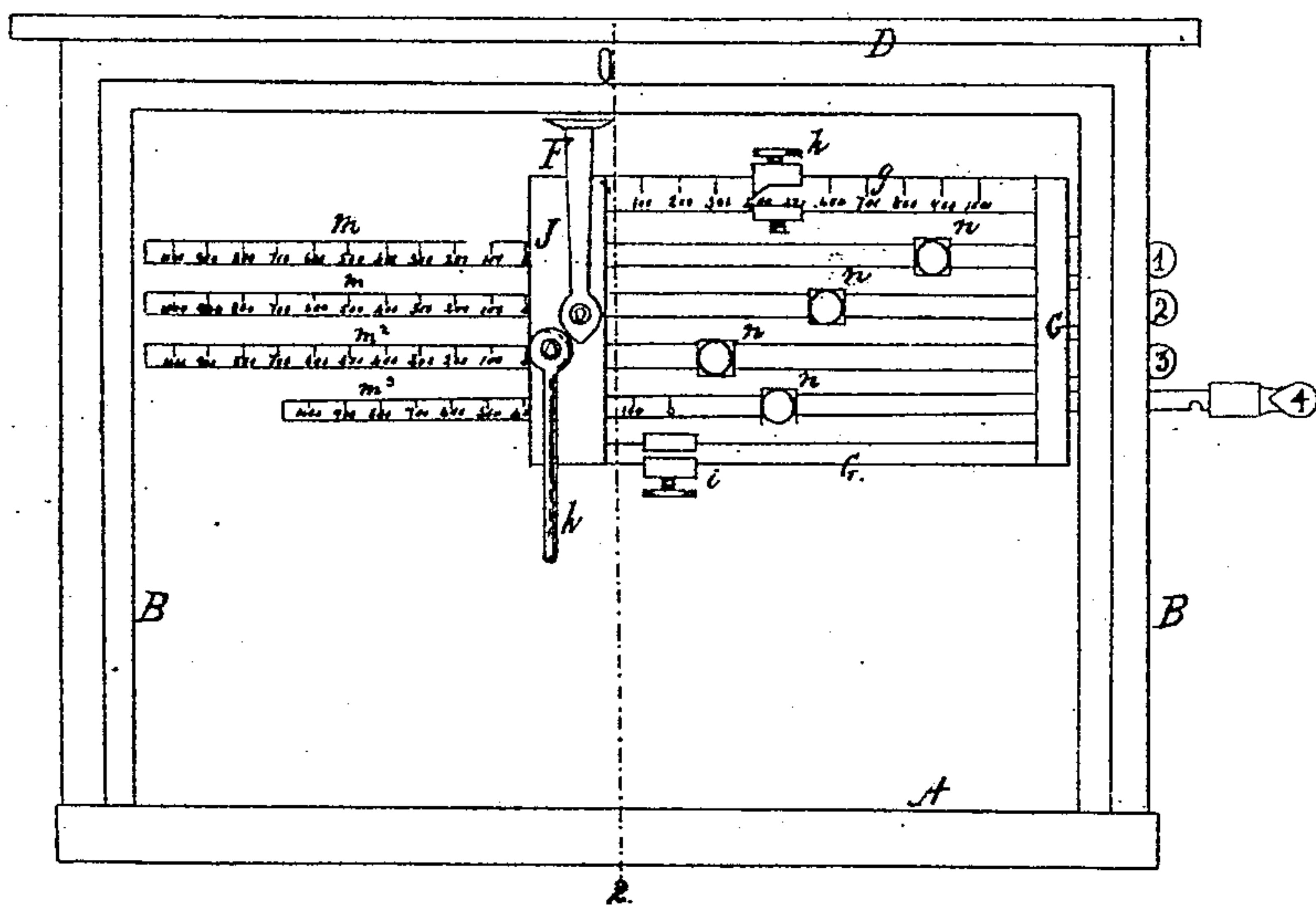
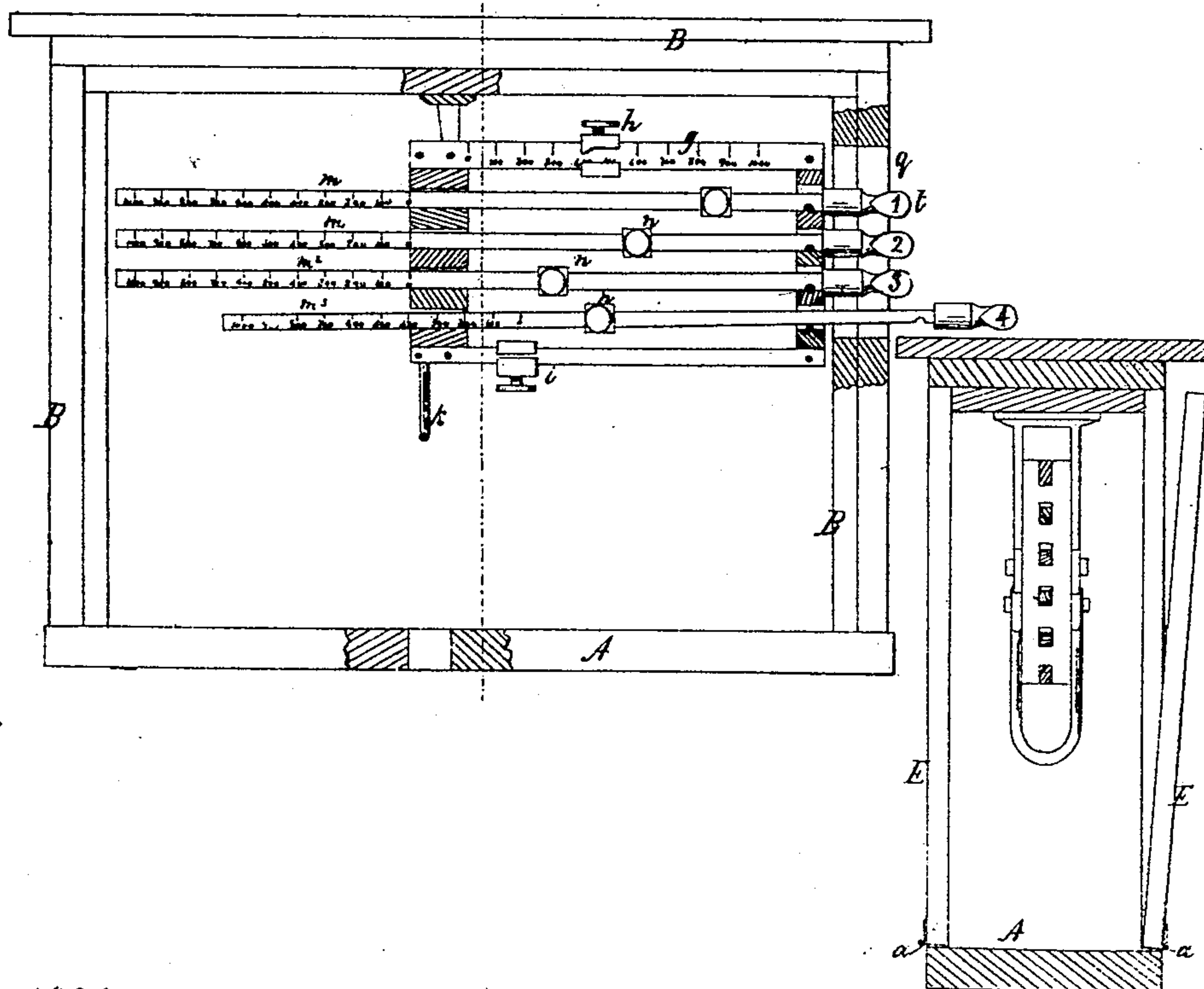


Fig. 2.



Witnesses

Wm Albert Steel
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AUGUSTUS B. DAVIS, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 76,169, dated March 31, 1868.

IMPROVEMENT IN BOX OR CASE FOR SCALE-BEAMS.

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, AUGUSTUS B. DAVIS, of Philadelphia, Pennsylvania, have invented an Improved Box or Case for Scale-Beams; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a box or case, constructed substantially as described hereafter, containing a scale-beam with one or more graduated sliding bars, and having at one end a slot, through which the said bar or bars can be drawn outwards to an extent limited by a stop on the said bar or bars, so that the laborers and others, whose duties have to be controlled by the scale-beam, can operate the bar or bars, but cannot gain access to the adjustable parts of the beam, the attendant being guided in his operations by the simple arrest of the bar, which he draws outward, and not by the observation of any graduations on the same. My invention further consists of a box or case having two doors, one on each side of the scale-beam, which is contained within the case, and which is graduated on both sides, the case with its contents being then in a condition to be applied either to the right or left of the platform, as circumstances may require.

In order to enable others skilled in the art to make and apply my invention, I will now proceed to describe its construction and operation; reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a side view of my improved box or case for scale-beams.

Figure 2, the same, partly in section; and

Figure 3, a transverse vertical section on the line 1-2, fig. 1.

Similar letters refer to similar parts throughout the several views.

My improved box consists of the base, A, the opposite vertical end-pieces B and B', the top piece D, and the two doors E and E', hinged to the base at *a a*, and fitting to the case, as shown in fig. 3.

To the under side of the top bar D of the case, is secured a clevis, F, to which is hung a compound beam, similar in principle to, but differing slightly in arrangement of parts from, that described in the Letters Patent granted to me on the 30th day of July, A. D. 1867. This beam consists of a rectangular frame, G, the upper bar *g* of which has tare-graduations, and an adjustable sliding weight, *h*, the lower bar of the frame having the adjustable balance-weight *i*. The clevis F is connected to the vertical bar *j* of the frame, and to the same bar is hung the clevis *k*, which is connected to a platform-scale in the usual manner.

A number of graduated bars, *m*, *m*¹, *m*², and *m*³, are arranged to slide in the frame G, and through a slot, *q*, in the vertical end B of the box or case, each bar being provided with an adjustable stop, *n*.

The operation of and the ends attained by this compound-scale beam have been so fully described in my aforesaid patent, that further description here of its construction and operation will be unnecessary.

Each sliding bar is provided at its outer end with a suitable handle, *t*, which, when the bar has been moved inwards to its full extent, projects through the slot *q* a sufficient distance only to permit the attendant to seize it and draw the bar outwards. After the stops and sliding weights of the scale-beam have been adjusted by the proprietor of the works where the scale is used, or by some responsible party, both doors are closed and locked, so that the laborers and others who have to be controlled in their operations by the scale-beams, cannot gain access to or tamper with its adjustable parts. As the handles of the several sliding bars are numbered or otherwise marked, however, and as these bars can be drawn outwards, the laborers (having been previously instructed) can, by the manipulation of these bars, determine the different weights of different materials, which have to be used together, as, for instance, the weights of different qualities of iron ore, limestone, and coal to be used in smelting.

Although the improved case has been illustrated and described as being used in connection with a scale-beam having four sliding bars, it will be evident that it is equally useful when arranged to contain a scale-beam having more or less than that number of bars.

In erecting some platform-scales, it is necessary to place boxes to the left, and in others to the right of the platform, hence the importance of having two doors, E and E', one on each side of the scale-beam, which has

graduations on both sides. The case can consequently be placed either to the right or to the left of the platform, without being made expressly to order.

I do not desire to claim broadly a scale-beam contained within a closed box, through a slot or slots in which bars of the beam may be drawn.

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

1. A box or case, constructed substantially as described, in combination with a scale-beam contained within the box, and having one or more sliding bars, which can be drawn through a slot in the box to an extent limited by a stop on the said bar or bars, as set forth.

2. The within-described box having two doors, one on each side, in combination with a scale-beam graduated on both sides, as set forth, for the purpose specified.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

Witnesses:

A. B. DAVIS.

CHARLES E. FOSTER,
W. J. R. DELANY.