

R. MURDOCK.
SUSPENDING SCALE PAN.

No. 75,448.

Patented Mar. 10, 1868.

Fig. 1.

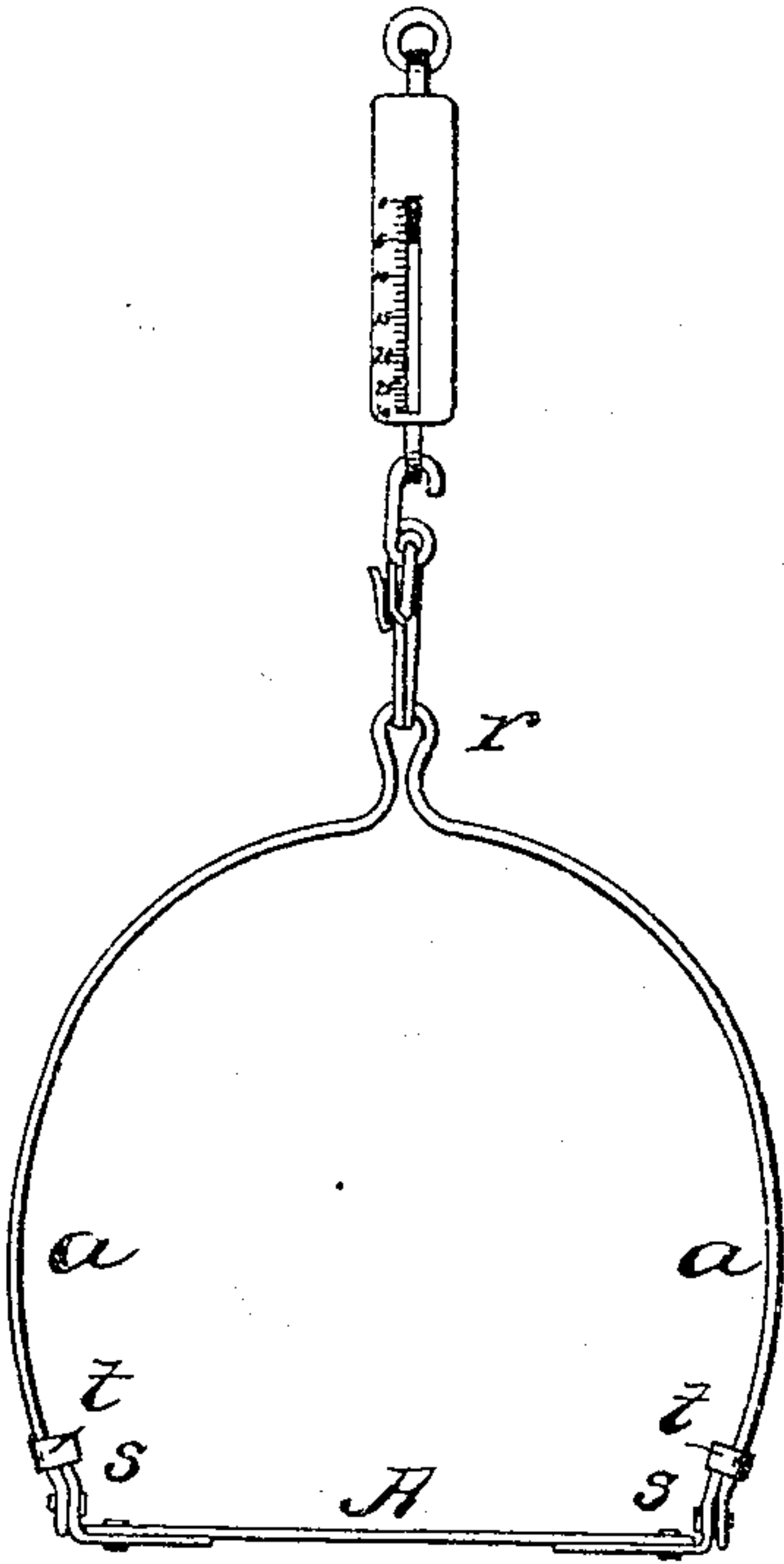


Fig. 3.

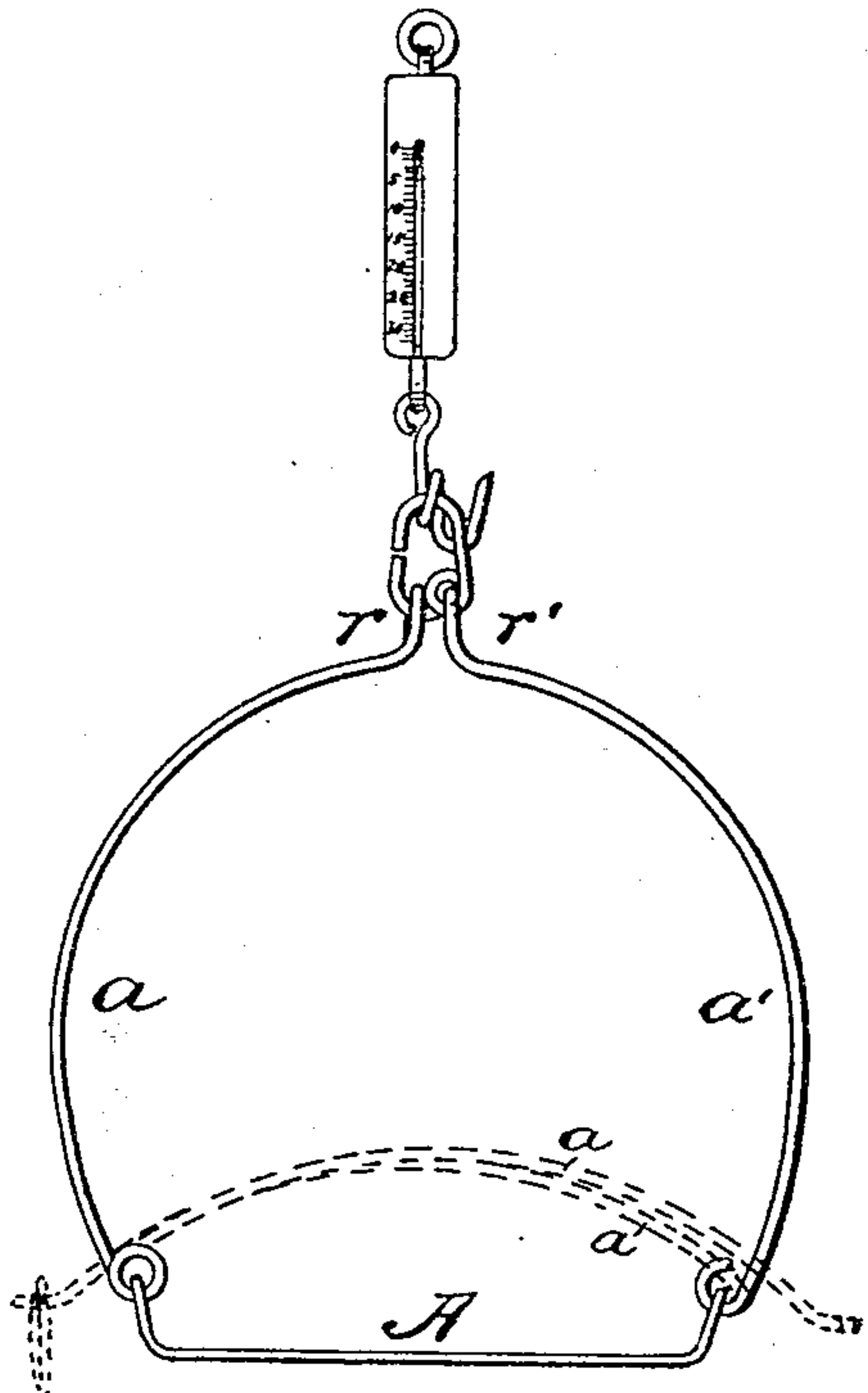


Fig. 2.

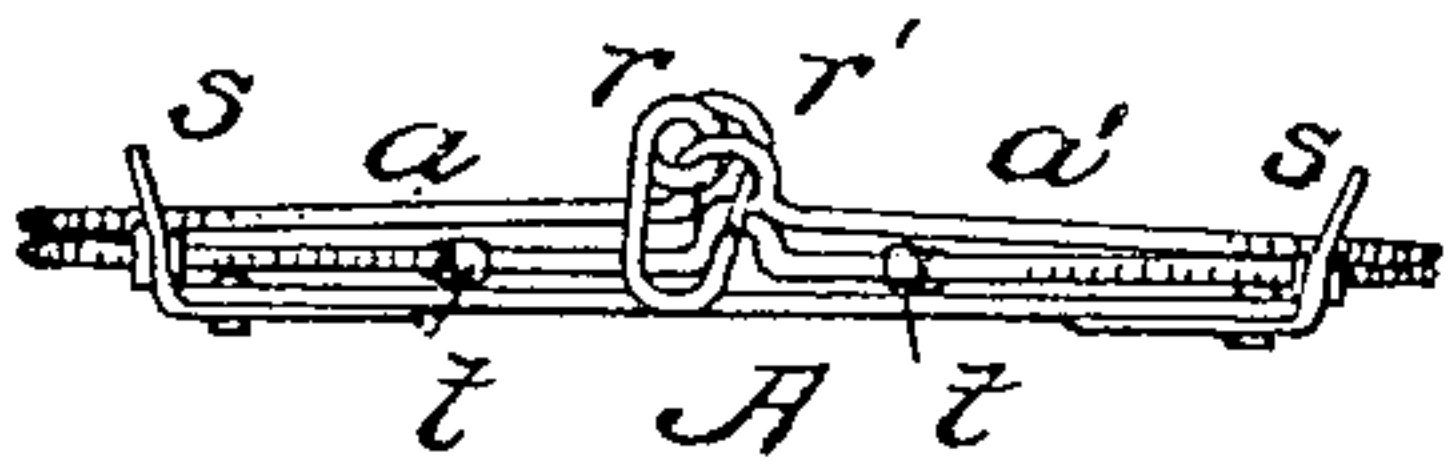
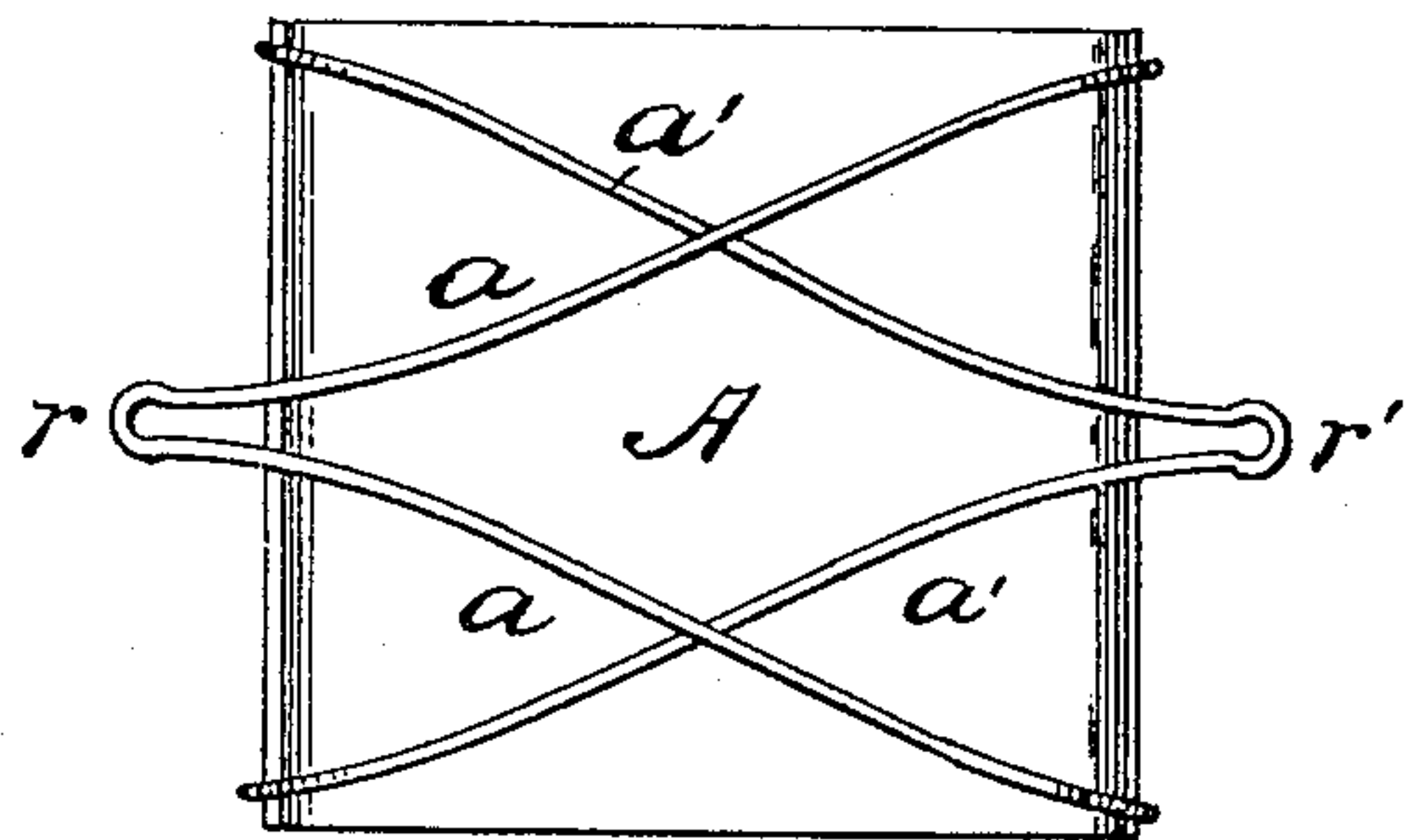


Fig. 4.



Witnesses:

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RICHARD MURDOCH, OF BALTIMORE, MARYLAND.

Letters Patent No. 75,448, dated March 10, 1868.

IMPROVEMENT IN SUSPENDING SCALE-PANS.

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, RICHARD MURDOCH, of the city and county of Baltimore, and State of Maryland, have invented a new and improved Folding Bow-Dish for Spring-Balances; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 is a side elevation.

Figure 2 is a similar view, showing the arms folded.

Figure 3 is a side elevation, showing, in black, the arms extended, and in red, the same folded.

Figure 4 is a top view.

In this invention, the dish or platform upon which the articles are placed, to be weighed by a spring-balance, is supported at its four corners by arms, bowed or curved outwards, and so arranged that they can be readily fixed in position or not, and, when not in use, can be folded together upon the dish, so as to occupy but little room.

The dish used to support the articles weighed by spring-balances has heretofore been hung to the slide by chains attached to it around its periphery, and coming together over its centre, where they hook to the slide or spring of the balance. Proceeding thus, in a straight line from the edges of the dish to the point where they meet, they take up the space required to conveniently hold the articles to be weighed, unless the latter are very small in bulk, and in this manner interfere with the proper operation of the instrument.

To remedy this, I have constructed a dish, the body of which is represented in the drawing at A, and which has on each side a pair of arms, $a a'$, hinged to the corners of the dish, and coming together over its centre, where one pair is connected by a ring, r , and the other by a ring, r' , the two, on each side, being connected together, but not connected with those on the opposite side. The two arms $a a'$, or $a' a'$, on either side of the dish, may, as shown in the drawing, be formed of a single rod, bent into a loop at r or r' , and hinged at its ends to the dish. The rings or loops $r r'$, while the instrument is in operation, are held by a hook upon the lower end of the slide of the balance. The arms $a a'$ are formed of stiff metallic rods, bent into the form of bows, and so attached that their concave side faces the dish, by which arrangement much more room is provided to receive articles for weighing than when chains or straight rods are employed. When the instrument is not connected with the balance, the arms $a a'$ may be folded down together upon the dish A, in the manner shown in figs. 2, 3, and 4, so as to save room in packing. The dish may be provided with short, stout standards $s s$, projecting upward, and slightly outward from the pivot by which the arms are attached to the dish, in such a position as to stand parallel to and in contact with the arms, when the latter are extended; and it may also be provided with rings or ferrules, $t t$, enclosing the lower end of the arms, and when the arms are in the position just described, capable of slipping over the standards also, as seen in fig. 1, and thus rigidly fastening the arms to the standards, and preventing the former from folding together until the rings are slipped up and removed from the standards. This construction will give the instrument all the advantages of rigid arms or bails, when required, and when they are not needed, will allow the bails to fold down on the dish, out of the way.

The whole instrument is neat in appearance, and can be conveniently transported or packed away when not in use.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. I claim a dish for spring-balances, constructed with two or more bowed arms, $a a'$, so operating that they can be folded together when not in use, substantially as described.
2. I claim the combination of the standards $s s$, sliding rings $t t$, and pivoted arms or bails $a' a'$, substantially as and for the purposes set forth.

RICHARD MURDOCH.

Witnesses:

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