

(No Model.)

S. S. CROMPTON.
SCALE.

No. 521,230.

Patented June 12, 1894.

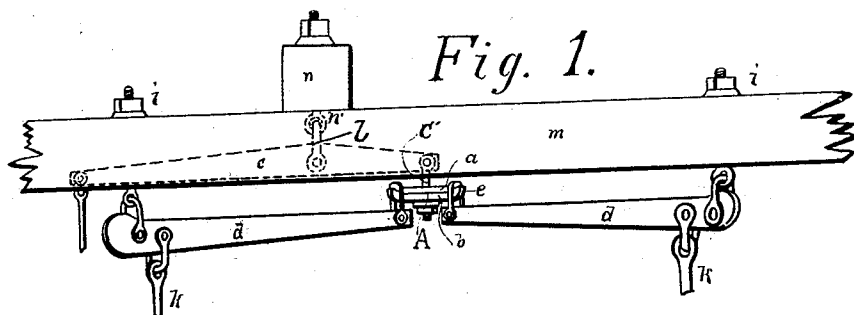


Fig. 1.

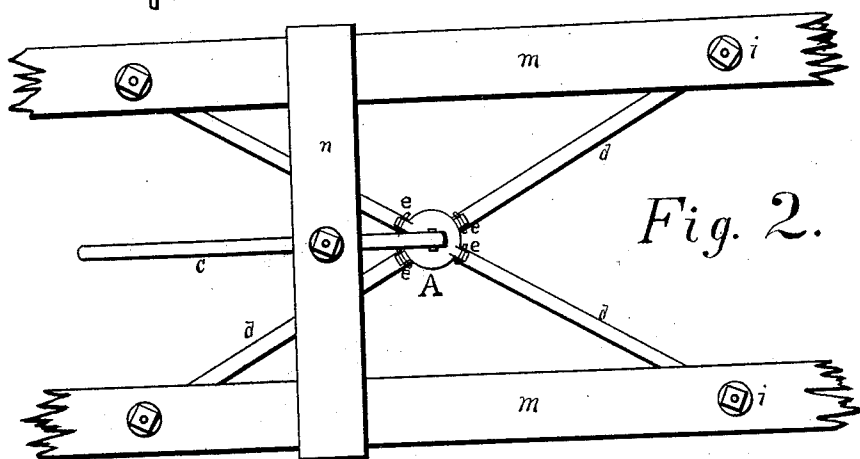


Fig. 2.

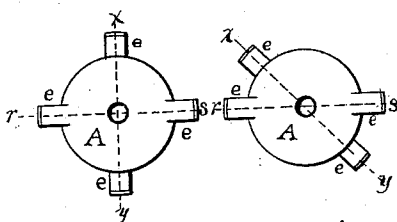


Fig. 3.

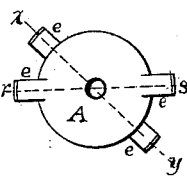


Fig. 4.



Fig. 5.
Cross section x-y

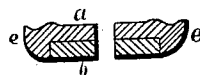


Fig. 6.
Cross section r-s

Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL S. CROMPTON, OF MOLINE, ILLINOIS, ASSIGNOR TO THE MOLINE
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SCALE.

SPECIFICATION forming part of Letters Patent No. 521,230, dated June 12, 1894.

Application filed July 25, 1893. Serial No. 481,462. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL S. CROMPTON, of the city of Moline, Rock Island county, Illinois, have invented certain new and useful Improvements in Hopper-Scales, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

Reference is had herein to the drawings accompanying and forming a part of this specification, in which the same character of reference refers to the same part in the several views.

My invention has reference to that part of the mechanism of scales known as the center or star block; and its object is to so construct the said block as to enable the levers radiating therefrom to be adjusted at various angles to each other, whereby certain advantages, more specifically enumerated hereinafter, are secured.

In the drawings, Figure 1 is a perspective view showing the star block with two radiating levers in position. Fig. 2 is a plan view of the star block with radiating levers in position. Figs. 3 and 4 are plans of the star block, showing different adjustments. Figs. 5 and 6 are cross sections of the star block on the lines $x-y$ and $r-s$ respectively.

In carrying out my invention, I provide a beam n , through which passes the ring-bolt n' . Through the ring passes the loop l , from which is pivotally suspended the lever c , which, on the extremity of its shorter arm carries suspended by means of the stud-loop c' , the star block A. The star block is circular, and the stud of the loop c' passes through its center, so that the block can revolve on the stud. The star block is provided with two pairs of diametrically opposed ears e, e, e, e , from each of which is suspended by means of a loop, the inner end of one of the radiating levers d, d, d, d , whose outer ends are hung by ring-bolts and loops from the beams m, m .

The hopper, on which is placed the mass to be weighed, is suspended below the radiating levers by loops and eye-rods k, k .

The star block A is composed of two circular plates or disks (a and b , Figs. 5 and 6), of suitable material, so that they can move upon each other about the stud which sustains the block. Each plate bears one pair of diametrically opposed ears. The ears on the lower plate are raised so as to be on a level with those of the upper plate. It is evident that the arc separating the adjacent ears on the upper and lower plates of the star block may be made equal to ninety or any less number of degrees by simply turning the upper block upon the lower; and also that the angle separating the adjacent radiating levers equals at all times the arc on the circumference of the block separating the adjacent ears. Thus the radiating levers may be set at right angles to each other, with the block adjusted to the position shown in Fig. 3; or, at oblique angles as shown in Fig. 2, with the block in the position shown in Fig. 4. In this manner the angles made by the radiating levers may be varied as the character of the building in which the scales are located, the amount of space at disposal, the size of hopper to be used, or other exigency may require or render desirable.

I am aware that it has been proposed to construct a switch for the overhead conductors of electric railways of two parts adjustable in relation to each other, each part carrying two conductors and I do not claim so broadly as to include such construction.

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

In a hopper scale, a series of radiating levers d pivoted at their outer ends, a lever c from which said series of levers are supported and a horizontally adjustable connection between the pairs of levers d at their inner ends whereby the angle of the levers d to each other may be varied, substantially as described.

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Witnesses:

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