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H. M. STARKE

SASH WEIGHT

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Fig. 1.

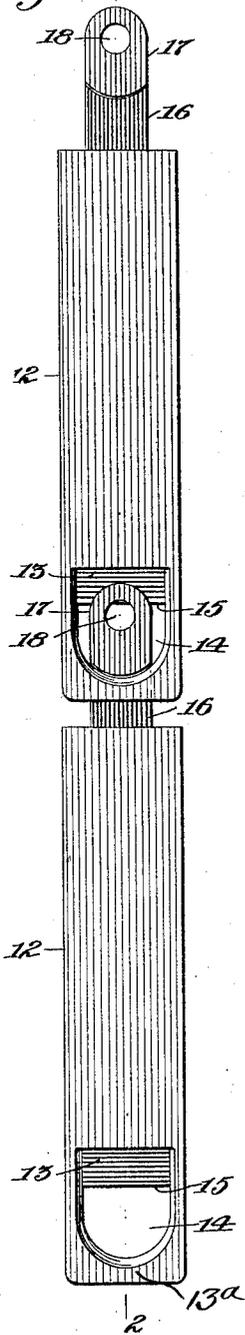


Fig. 2.

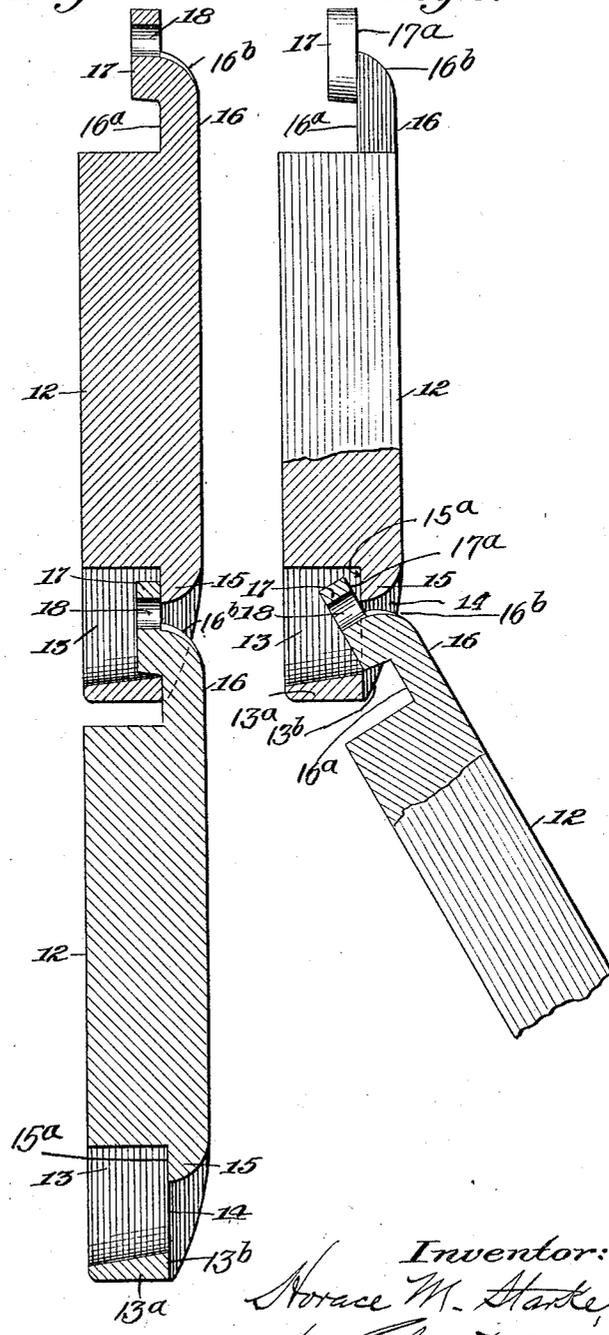


Fig. 3.

Inventor:  
Horace M. Starke,  
by Robert K. Kohn,  
Att'ys.

# UNITED STATES PATENT OFFICE.

HORACE M. STARKE, OF RICHMOND, VIRGINIA, ASSIGNOR TO STARKE'S DIXIE PLOW WORKS, A CORPORATION OF VIRGINIA.

## SASH WEIGHT.

Application filed August 11, 1923. Serial No. 656,813.

*To all whom it may concern:*

Be it known that I, HORACE M. STARKE, a citizen of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented or discovered certain new and useful Improvements in Sash Weights, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a sectional sash weight of such construction that any desired number of the units thereof may be quickly and conveniently assembled in such a manner that they cannot become separated from each other when in the window boxes in which the sash weights are enclosed, the units of the sectional weight being all alike so that they are interchangeable in that each unit is adapted for the attachment of a sash cord.

In the accompanying drawing, Fig. 1 is a front view showing two units of a sectional sash weight loosely joined together. Fig. 2 is a vertical section of the same on line 2—2, Fig. 1. Fig. 3 is a vertical section to show how the members may be assembled or taken apart.

Referring to the drawing, 12 denotes the bodies of the weights each unit of which is provided at its bottom with a deep recess 13 and an opening 14. The opening 14 communicates with the recess 13 so that the two, collectively, form an opening 13<sup>a</sup> entirely through the bottom of the unit. At the back of the metal web below the recess 13 is a shoulder 13<sup>b</sup>. Above said opening is a depending lip 15 the back or outside of which is bevelled or chamfered off as clearly shown in Figs. 2 and 3. The inside wall of the lip 15 affords a shoulder 15<sup>a</sup> which is in line, vertically, with the shoulder 13<sup>b</sup>. Each weight unit is provided at its top on one side with a neck 16 of a width somewhat less than the width of the opening 14, said neck being provided at its top with an inwardly projecting part 17 provided with an opening 18. The part 17 thus constitutes an eye portion for the attachment of a sash cord, which may be passed through the opening 18, and then be knotted at its end in the usual manner, as will be understood. The eye portion 17 is preferably rounded at its top and bottom, and the lower wall of the recess 13 and the lower edge of the opening 14 is preferably formed in a curve corre-

sponding approximately to the rounded lower bottom part of the eye portion 17, to afford a proper seat for the latter. These contacting curved or rounded parts render the lower weight self-adjusting, laterally, by gravity, as will be apparent. The top of the back part of the neck 16 is rounded or chamfered off, at 16<sup>b</sup>, for easy insertion of the eye portion 17 through the opening 14 below the chamfered-off lower end of the lip 15 of an adjacent unit, in assembling two units together.

It will be noted that owing to the inward inclination of the top part of the neck 16 the eye portion 17 is at some distance within the vertical line of the sides of the weight, or in a line about midway of the body of the weight, thus adapting the weight for the attachment of a knotted sash cord which, with its knot, will be within the vertical lines of the sides of the weight, so that the suspending cord may run clear of the walls of the sash chamber within which the weight will be suspended.

In joining one unit or section of the weight to another the two units will be disposed so that they are considerably out of alignment, as indicated in Fig. 3, and the neck 16 of one unit, with its eye portion 17, may then be inserted through the opening 14 in the other unit, and when the parts are straightened out so as to be in alignment, as shown in Fig. 2, said eye portion 17 of the lower unit will rest on the bottom wall of the opening 13 of the unit above, as shown in Figs. 1 and 2. Also when thus straightened out the shoulder 17<sup>a</sup> at the back of the eye portion 17 will abut against the shoulder 15<sup>a</sup> on the inside of the depending lip 15, and a shoulder 16<sup>a</sup> on the inside of the neck 16 will abut against the shoulder 13<sup>b</sup> at the back of the web 13<sup>a</sup>. These contacting shoulders will hold the connected weight units steadily in alignment, front and back, as will be understood from Fig. 2. When thus joined together one unit cannot become detached from another while the parts are in alignment, as they will be in use, it being necessary, in order to disconnect one unit from another, to move said units considerably out of alignment, as will be understood from Fig. 3.

The contacting curved surfaces of the eye portion 17 and the lower wall of the recess 13, on which said eye portion rests, will per-

mit a certain freedom of sidewise movement of one weight unit or section relative to another, as will be understood; and although this curved construction of these parts is preferred the invention is not to be understood as being limited thereto, as such slight changes in the construction herein shown and described as may come within the province of mechanical skill may be made without departing from the scope of the invention as the same is defined by the claims hereunto appended.

Having thus described my invention, I claim and desire to secure by Letters Patent:

1. A sash weight unit consisting of a body having a recess at its bottom with a curved lower wall, and an opening at its back wall at the lower part of said recess, said body having a depending lip at the top of said opening, said lip having an inside vertical shoulder and the said body having a metal web below said recess, said web having, at its back, a shoulder which is in vertical alignment with the said shoulder on said lip, said body being provided at its top, at one side, with a neck having at its upper end an inwardly extending eye portion with an opening of a proper size to receive a knotted sash cord, said neck and eye portion being of a suitable size to be passed freely through the said opening into said recess in assembling the units of the sectional

sash weight together, said eye portion having a vertical curved or rounded shoulder to contact with the curved or rounded lower wall on a similar unit when assembled therewith.

2. A sectional sash weight consisting of a plurality of units each consisting of a body having a recess at its bottom with a curved lower wall, and an opening at its back wall at the lower part of said recess, said body having a depending lip at the top of said opening, and said body being provided at its top, at one side, with a neck having at its upper end an inwardly extending eye portion comprising an opening of a proper size to receive a knotted sash cord, said neck and eye portion being of a suitable size to be passed freely through the said opening into said recess in assembling the units of the sectional sash weight together, the bottom of said eye portion being rounded, and the wall at the bottom of said recess being curved to afford a proper seat for said eye portion, said eye portion having a vertical shoulder to contact with the shoulder on said lip of a similar unit when assembled therewith, and said neck having at its inside a vertical shoulder to contact with the shoulder on said web of a similar unit when two units are connected together.

In testimony whereof I affix my signature.

HORACE M. STARKE.