

(No Model.)

W. E. MERRELL.
SASH WEIGHT.

No. 546,862.

Patented Sept. 24, 1895.

Fig. 1.

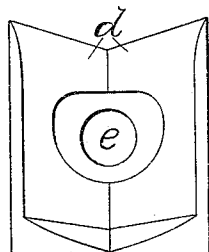


Fig. 2.

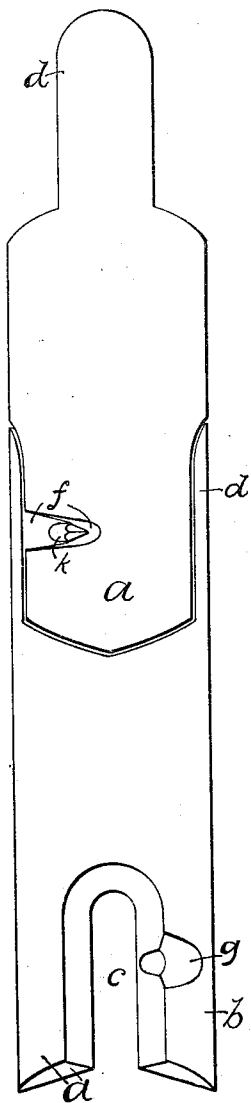


Fig. 3.

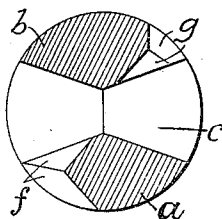


Fig. 4.

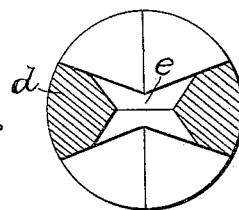


Fig. 6.

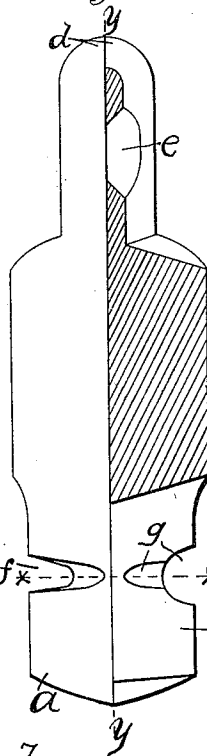


Fig. 5.

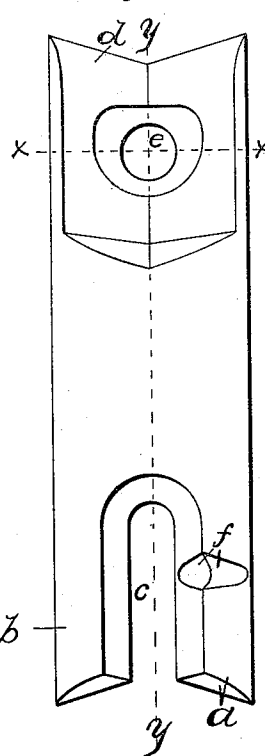
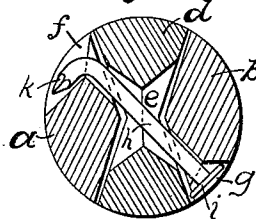


Fig. 7.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM E. MERRELL, OF RAVENNA, OHIO.

SASH-WEIGHT.

SPECIFICATION forming part of Letters Patent No. 546,862, dated September 24, 1895.

Application filed April 29, 1895. Serial No. 547,449. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. MERRELL, a citizen of the United States, residing at Ravenna, in the county of Portage and State of Ohio, have invented a new and useful Sash-Weight, of which the following is a specification.

My invention relates to improvements in sash-weight sections designed and adapted to be combined to form weights of different hefts; and the object of my invention is to provide weight-sections of the above-named type that can be molded easily and cheaply and adapted to be easily and securely fastened together by the retail dealer with nails and complete as an article of manufacture and commerce without the nails or parts for securing them together. I attain this object by the construction illustrated in the accompanying drawings, which—

Figures 1 and 2 are elevations from different quarters of two sections combined in a weight; Fig. 3, a transverse section on the broken line *x x* of Fig. 6; Fig. 4, a transverse section on the broken line *x x* of Fig. 5; Fig. 5, an elevation of a single section; Fig. 6, a half elevation of a single section at right angles to Fig. 5 and a half-sectional elevation on line *y y* of Fig. 5, and Fig. 7 a transverse section on the broken line *x x* of Fig. 1.

Like letters refer to like parts in the several views.

In the drawings the weight-sections are shown cylindrical in form, but need not of necessity be made thus. The bottom end of each section is bifurcated centrally and longitudinally, forming the connecting-lugs *a* and *b*, separated by the space or slot *c*. That the top end of one section may mate or interlock with the bottom end of another, a portion is cut away from each side at its top end, leaving a shank *d*, corresponding in shape to the slot *c*.

To prevent any material displacement laterally when two sections are interlocked, the slot *c* is much wider on either side at the surface than at the center of the section, and the shank *d* is correspondingly thicker at the

surface than at the center. As the thicker part of the shank cannot pass through the narrower part of the slot, there can be no material displacement of the sections laterally. Formed thus, the sections can be interlocked by an endwise movement only. It will be seen that the slot at the bottom and the shank at the top of a section are not in the same plane, but are set "quartering" or at right angles to each other. Arranged thus, with the parting plane in the mold on the line *y y*, Fig. 6, this form can be as readily molded and cast as any form of sash-weight.

To secure the interlocked sections together, the shank *d* is made with a hole *e* through it, and the notches *f* and *g* are made in the legs *c* and *d*, respectively, diametrically opposite each other and so located as to come near the top of the hole *e* when two sections are properly united. The notches *f* and *g* and the hole *e* being thus in line, a common wire nail *h* is driven into the passage thus formed through the weight. The head *i* of the nail sinks below the surface in the notch *g*, and its point end *k* is bent or clinched over into a part of the notch *f*, as shown in Figs. 1, 2, and 7. The suspending-cord is attached by passing it through the hole *e* in the usual way.

I do not wish to be limited to the use of a headed nail, as a piece of wire without a head may be used by bending both ends over into the respective notches.

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

A weight section having at one end two longitudinally projecting connecting lugs separated by a slot wider at the surface than at the center of the section, and at the other end a single longitudinal connecting shank similar in size and shape to said slot; the shank having a perforation and each of the lugs having a notch for receiving a nail or key for securing the sections together, substantially as set forth.

WM. E. MERRELL.

Witnesses:

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