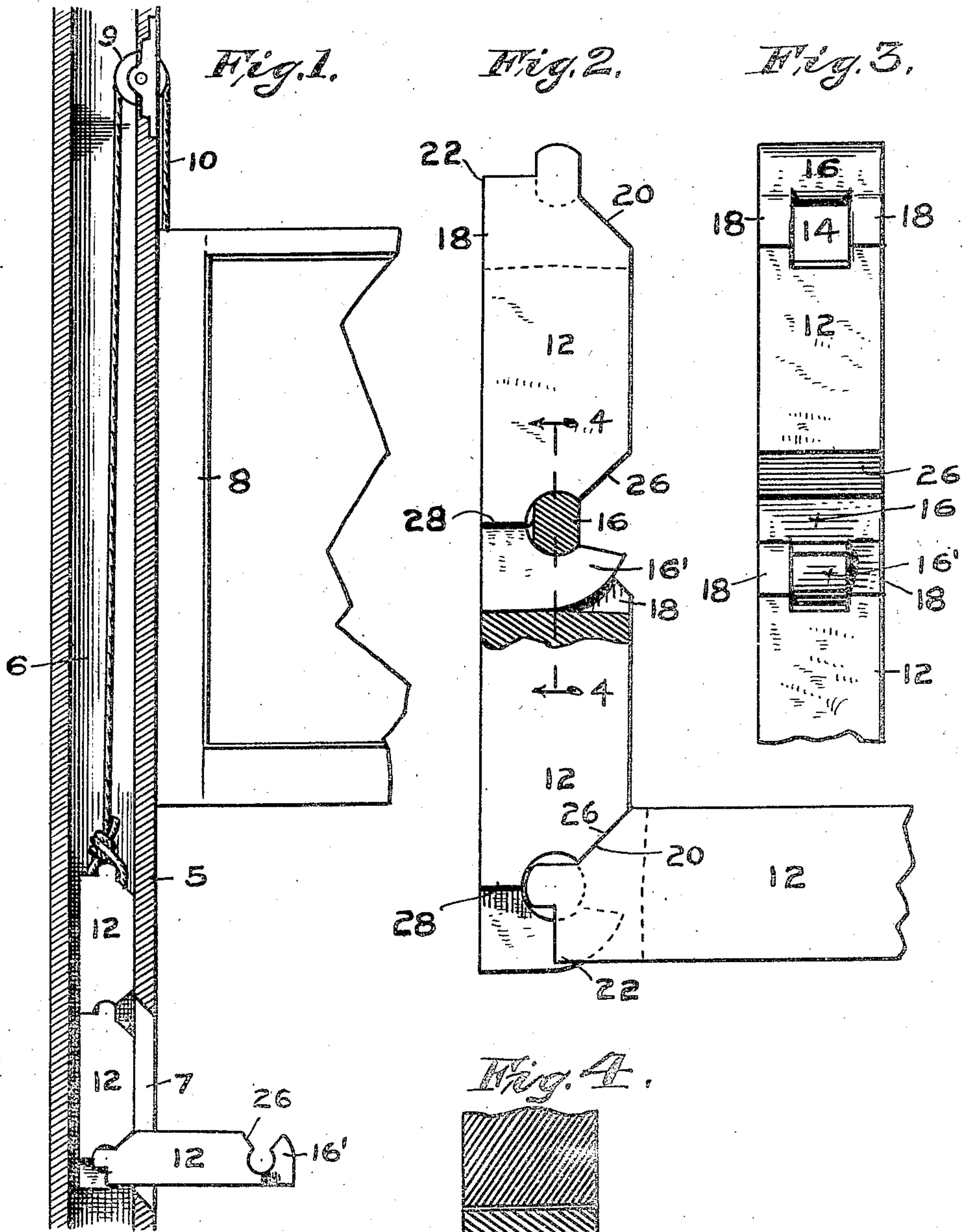


No. 879,906.

PATENTED FEB. 25, 1908.

C. E. RHORER.
SASH WEIGHT.

APPLICATION FILED JUNE 10, 1907.



WITNESSES;

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UNITED STATES PATENT OFFICE.

CHARLES E. RHORER, OF COLUMBUS, INDIANA.

SASH-WEIGHT.

No. 879,906.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed June 10, 1907. Serial No. 378,277.

To all whom it may concern:

Be it known that I, CHARLES E. RHORER, a citizen of the United States, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented certain new and useful Improvements in Sash-Weights, of which the following is a specification.

An object of the invention is to construct the interlocking ends of the weights in a strong and durable manner which will be sufficient to withstand the blows and hard usage incident to shipment and handling, and which would otherwise render the weights useless should these fastenings be broken.

I accomplish the objects of my invention by the means illustrated in the accompanying drawing, in which—

Figure 1 is a detail in vertical section of a window frame showing the sash-box into which for the suspension of a sash my improved weight is being introduced. Fig. 2 is a detail on a larger scale, and in partial section, of the weight shown in Fig. 1. Fig. 3 is a detail showing the joint between the two top members of the combination shown in Fig. 2, the view being on a plane at right angles to that on which Fig. 2 was taken, and Fig. 4 is a section on the line 4—4 of Fig. 2.

Like characters of reference indicate like parts throughout the several views of the drawing.

5 represents the side of a window frame, 6 the weight-box formed therein, 7 the removable portion of pocket through the frame into the weight-box, 8 a window sash, 9 the cord-pulley and 10 the cord passing over the pulley 9 and connecting the sash 8 with the sash weights 12.

The weights 12 are of the same general construction, differing only in size so as to permit units of different weights to be combined into a whole to meet the requirements in properly balancing the window sash. As each of these units 12 are alike in general construction a description of one will suffice for all of them. Formed in the upper end of each weight-section or unit 12 is a recess 14 through which the cord 10 will be passed and tied in securing the top member of a series, and for the remaining units of that series their respective recesses will be engaged by hooks 16' formed on the lower ends of each of said units. The cross-bar 16 forming the outer end of the recess is supported by the two parallel side walls 18, the front corner 20 of which is cut off at an oblique angle to permit

two adjacent sections to be folded together at right angles for the purpose of assembling the sections and also to permit the introduction of the weights into the box 6 through the pocket 7. The opposite upper corner of the wall 18 is a right angle as shown at 22, its upper edge being in alinement with the center of the bar 16 to act as a stop in limiting the backward movement of the sections at their joints. The hook 16' is flat-sided and is inserted through the recess 14. The end of the hook extends up sufficiently to require a section which is to be hooked onto it, to be raised into a horizontal position at right angles to the vertical section, and to allow for this the lower front corner 26 is removed as shown. Abrupt shoulders 28 are formed at the junction of the hook with the body 21, and these shoulders by contact with the corners 22 of the adjacent weight section limit the backward movement of the sections at their joints.

The operation and manner of assembling and use of my invention is so simple and obvious that further description is unnecessary, attention being called however to the strong and substantial formations of both recess and hook which permit the disconnected sections or units to be handled roughly in shipment and installation, as such articles generally are, without damage.

Having thus fully described my invention what I claim as new and wish to secure by Letters Patent of the United States, is,—

1. In a compound sash-weight, a weight unit having a recess at one end, and a hook at the other end of the unit making a working fit with a corresponding recess of an adjacent unit, said hook having an up-turned end to require an angular relation in assembling the units, said units having oblique corners adjacent to the open side of the hook, and shoulders opposite the oblique corners in a plane approximately through the center of said cross-bar.

2. In a compound sash weight, a weight unit having a recess at one end and a hook at its other end, said recess comprising a pair of parallel plates and a cross-bar located approximately midway between two opposite sides of the weight, and said hook having straight parallel sides to fit the slot of its adjacent unit and an upturned end to require an angular relation of the units in assembling same, said hook having an angle or corner to contact with the adjacent unit, and the cor-

ners of both units on their sides adjacent to the open side of the hook being beveled.

3. A sectional sash-weight member having at one end a flat-sided, central, projecting hook provided with a transverse circular opening and a front entrance thereto, the body of the member extending at its back approximately to the middle of the circular opening, and at its other end provided with a recess formed with parallel sides to receive the hook of a contiguous member, and a cross-bar half in the recess and half above,

having parallel front and back faces, and having the front corners of both ends of the member beveled.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this, 25th day of April, A. D. one thousand nine hundred and seven.

CHARLES E. RHORER. [L. s.]

Witnesses:

F. W. WOERNER,

E. E. MILLER.