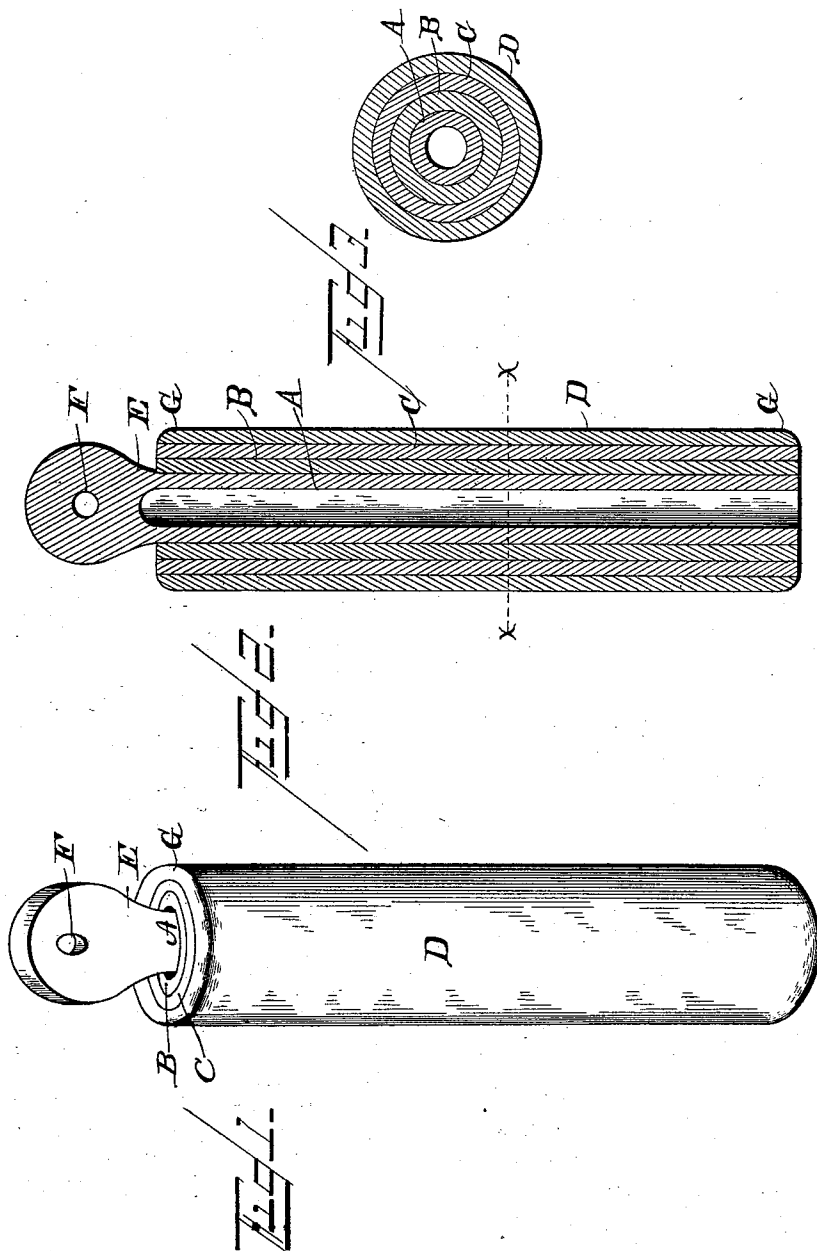


(No Model.)

R. S. JUDSON.
SASH WEIGHT.

No. 508,546.

Patented Nov. 14, 1893.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ROSWELL S. JUDSON, OF MATTEAWAN, NEW YORK.

SASH-WEIGHT.

SPECIFICATION forming part of Letters Patent No. 508,546, dated November 14, 1893.

Application filed February 18, 1893. Serial No. 462,819. (No model.)

To all whom it may concern:

Be it known that I, ROSWELL S. JUDSON, a citizen of the United States, and a resident of Matteawan, in the county of Dutchess and State of New York, have invented certain new and useful Improvements in Sash-Weights; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved sash weight. Fig. 2 is a longitudinal sectional view of the same; and Fig. 3 is a cross section on line $x-x$.

Like letters of reference denote corresponding parts in all the figures.

This invention relates to weights for window sashes, and has for its object to construct a cheap yet strong and durable sash weight of true cylindrical shape.

To this end my improvement consists in the peculiar construction, as an improved article of manufacture, of the wrought-iron sash-weight which will be hereinafter more fully described and claimed.

Referring to the drawings, the letter A denotes the core of the weight, which is simply a section of quarter inch wrought iron pipe. This is forced into another section of larger pipe B, while the latter is hot, so that, when this outer pipe, B, cools off and shrinks, it will bind the inside core A, so as to form practically one piece. The next operation is to insert the part A B into another section of pipe C, of still larger diameter, which is first heated so as to cause it to expand sufficiently to receive this core A B; and in this manner

the weight is built up successively by concentric sections or layers of pipe until it is of the size and heaviness desired in any given case. The last operation is to flatten the projecting end, E, of the inside pipe, or core, A, and drill a hole, F, through it for the attachment of the sash cord, when the weight is finished by filing off and beveling it at both ends, as shown at G.

On the drawings, I have shown a weight composed or built up of four concentric sections of pipe, marked respectively A, B, C and D; but it will be obvious that a larger or smaller number of pipe-sections may be used, according to how heavy a weight of a given length is to be.

It will be seen that this weight is exceedingly simple in construction and can be made by any blacksmith, as light or heavy as may be desired.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improved article of manufacture, a metallic sash weight built up of a suitable number of concentric sections or layers of pipe shrunk upon one another while hot; the innermost section or core being extended beyond its enveloping sections and having its extended end flattened and perforated for the attachment of the sash cord, substantially as shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

ROSWELL S. JUDSON.

Witnesses:

EDMUND S. PHILLIPS,
WELDON F. WESTON.