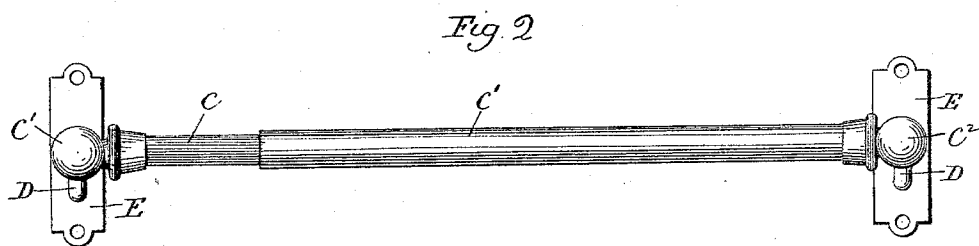
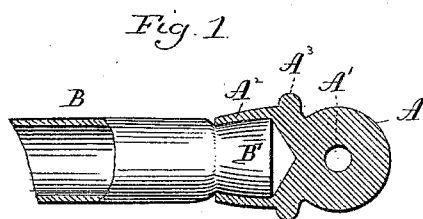


(No Model.)

G. H. ATKINS.
ROD FOR SASH CURTAINS.

No. 597,551.

Patented Jan. 18, 1898.



Witnesses.
J. H. Shumway.
William D. Kellogg

George H. Atkins,
Inventor.
By atty.
Earle Keyman

UNITED STATES PATENT OFFICE.

GEORGE H. ATKINS, OF TORRINGTON, CONNECTICUT, ASSIGNOR TO THE
TURNER & SEYMOUR MANUFACTURING COMPANY, OF SAME PLACE.

ROD FOR SASH-CURTAINS.

SPECIFICATION forming part of Letters Patent No. 597,551, dated January 18, 1898.

Application filed June 29, 1896. Serial No. 597,385. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. ATKINS, of Torrington, in the county of Litchfield and State of Connecticut, have invented a new
5 Improvement in Rods for Sash-Curtains; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description
10 of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a broken view in central longitudinal section of one form which a rod for sash-
15 curtains constructed in accordance with my invention may assume; Fig. 2, a view in front elevation of a rod constructed in accordance with my invention and put up as for use.

My invention relates to an improvement in
20 rods for sash-curtains or curtains designed to be used in kindred situations, the object being to produce a simple, strong, light, and convenient rod constructed with particular reference to cheapness of production and a finished
25 appearance.

With these ends in view my invention consists in the combination, with a tubular metal rod, of a metal tip constructed with a socket to receive the end of the rod and having its
30 open end or edge compressed and contracted, whereby it is drawn into the tube and forms a frusto-conical retaining-head thereupon within the socket.

My invention further consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

In carrying out my invention as herein shown I employ a tip having a spherical head
40 A, formed with a transverse perforation A' and constructed with a socket A², opening inwardly and separated from the spherical head by means of an annular flange or bead A³, the said socket A² being adapted to receive
45 one end of the tubular rod B. For fastening the tip to the rod the open end or edge of the socket is compressed or contracted by any suitable swaging or compressing operation, whereby its edge is forced into the rod, so as
50 to form upon the end of the rod a frusto-conical retaining-head B', which is larger in diameter than the open end of the socket

when contracted, whereby the rod and tip are very firmly secured together, the result being a joint easier to produce and more elegant in
55 appearance than a joint made by riveting or soldering.

I would particularly call attention to the fact that under my invention it is not necessary to groove the rod prior to its insertion
60 into the socket nor to cut the rod for the reception of the edge of the socket.

As shown in Fig. 2, the rod is made extensible and comprises two members C and C', each furnished with a tip C², the transverse
65 openings of which adapt them to be applied to the vertically-arranged arms D D of the brackets E E. I would have it understood, however, that it is not necessary that my improved tip should be of the particular construction shown, as it may vary therefrom so
70 far as its adaptation to be secured to a bracket is concerned. I do not therefore limit myself to the construction set forth, but hold myself at liberty to make such changes as fall within
75 the purview of my invention.

I am aware that it is not broadly new to insert the ends of a tubular metal curtain-rod into inwardly-opening sockets forming features of end pieces for the rod, and do not
80 claim such a construction broadly.

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

The combination with a tubular metal rod
85 having integral frusto-conical retaining-heads at its ends; of brackets or supports provided with tips constructed with sockets expanding inwardly from their mouths and enclosing the said frusto-conical heads which
90 are tightly clasped by the walls of the sockets, the same being contracted and reduced upon the ends of the tubular rod and thus forced thereinto, whereby the sockets are given their described tapering form, and the frusto-conical
95 heads formed upon the rod without any preliminary grooving or cutting thereof.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

GEORGE H. ATKINS.

Witnesses:

LYMAN B. MUNSON,
F. A. HALL.