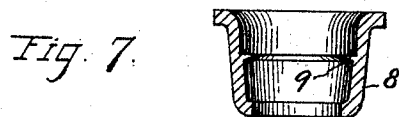
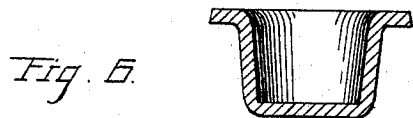
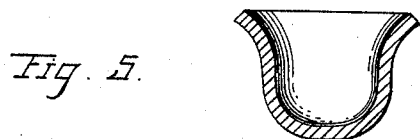
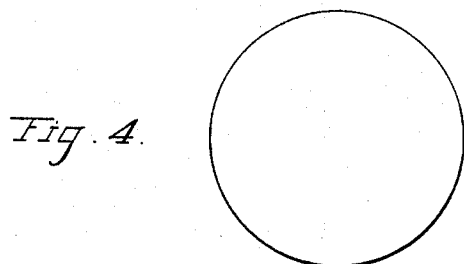
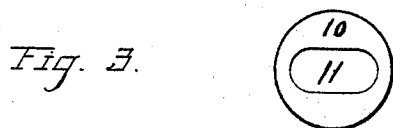
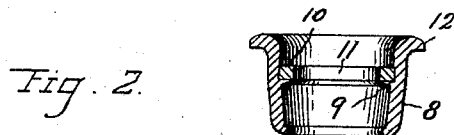
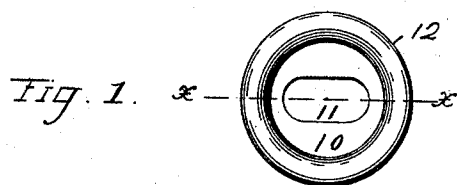


(No Model.)

C. A. TAPLIN.
WINDOW STOP ADJUSTER.

No. 586,147.

Patented July 13, 1897.



WITNESSES

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UNITED STATES PATENT OFFICE.

CLARENCE A. TAPLIN, OF FORESTVILLE, CONNECTICUT, ASSIGNOR TO THE
TAPLIN MANUFACTURING COMPANY, OF SAME PLACE.

WINDOW-STOP ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 586,147, dated July 13, 1897.

Application filed August 31, 1896. Serial No. 604,370. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE A. TAPLIN, a citizen of the United States, residing at Forestville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Window-Stop Adjusters, of which the following is a specification.

My invention relates to improvements in window-stop adjusters; and the main objects of my improvement are simplicity and economy in construction and convenience and efficiency of the article.

In the accompanying drawings, Figure 1 is a plan or face view of my window-stop adjuster. Fig. 2 is a sectional view thereof on the line *x x* of Fig. 1. Fig. 3 is a detached plan view of the slotted diaphragm. Fig. 4 is a plan view of the blank from which the body of my window-stop adjuster is formed. Fig. 5 is a central sectional view showing the result of the first operation on said blank. Fig. 6 is a like view showing the result of the second operation thereon. Fig. 7 is a like view showing the result of the third operation thereon.

My window-stop adjusters are designed to be set in holes in the window-stop bored at proper points to receive the same, the adjusters being set with the slots in their diaphragms extending transversely to the stops.

I form my adjusters of two pieces of metal, a disk-like diaphragm and a sheet-metal body cut out and struck up in dies to give proper form and to rigidly unite the two pieces substantially the same as if they were formed in one piece.

The body 8 of the adjuster is formed from a flat disk of sheet metal 4, which by means of suitable dies is struck up and cut into the form shown in Fig. 7, the same being preferably performed by three operations, although the number of operations on the blank is not essential to my invention. In striking the metal to the form shown in Fig. 7 an internal flange 9 is made, the top of which flange forms a seat for the diaphragm 10. It should be noted that the tubular body on its outer side immediately opposite said inner flange is perfectly plain and smooth without seam or wrinkle. The diaphragm is a simple disk with a slot or elongated hole 11, and I prefer to force it down to its seat on the flange 9 of

the partly-formed body or blank, Fig. 7. After placing a diaphragm in such a blank the two are struck in suitable dies of such form as to contract the upper or larger portion of the body and firmly bind the sides thereof upon the edges of the diaphragm, so that there is no danger of its ever being accidentally removed or loosened, thereby changing the blanks, Figs. 3 and 7, into the finished product, as shown in Figs. 1 and 2.

By thus forming the body of the adjusters of sheet metal in dies they can be made so uniform in size that they may be securely held in holes bored with a given size of bit by simply driving them into place and without splitting the window-stop into which they are driven and without the employment of radial wings to sink into the wood and prevent turning. The flange 12 forms a suitable stop-shoulder and makes a neat finish. The heads of the holding-screws for the stop will rest upon the diaphragm. The internal flange 9 on the inside of the body 8, upon which the diaphragm rests, makes it impossible for the diaphragm to be ever forced inwardly out of place, and this is all the strain that the diaphragm will be subjected to in use.

I claim as my invention—

1. A window-stop adjuster consisting of a tubular sheet-metal body having at about the middle of its length the internal flange 9, and the separately-constructed disk-like slotted diaphragm 10 seated on said flange and firmly secured within said body substantially as described.

2. A window-stop adjuster having a tubular body 8 with a plain wingless exterior surface along its sides, an outwardly-projecting rim-flange 12 at its outer end, a contracted inner end with its exterior corner rounded off, and an internal flange 9 in a plane about midway between said outer rim-flange 12 and exterior rounded corner of the contracted inner end, in combination with a separately-constructed disk-like slotted diaphragm 10, seated on said flange 9 and firmly secured thereon by the pressure of the sides of said body on the edge of said disk-like diaphragm, substantially as described.

CLARENCE A. TAPLIN.

Witnesses:

FRED GOODRICH,
JAMES SHEPARD.