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1,572,776

F. DE NOME
GLASS RIM STRETCHER
Filed July 16, 1923

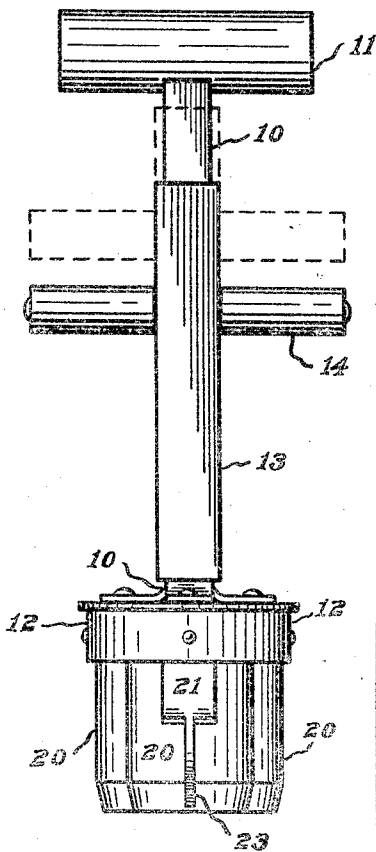


Fig. 1.

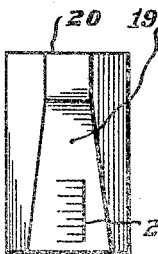


Fig. 5.

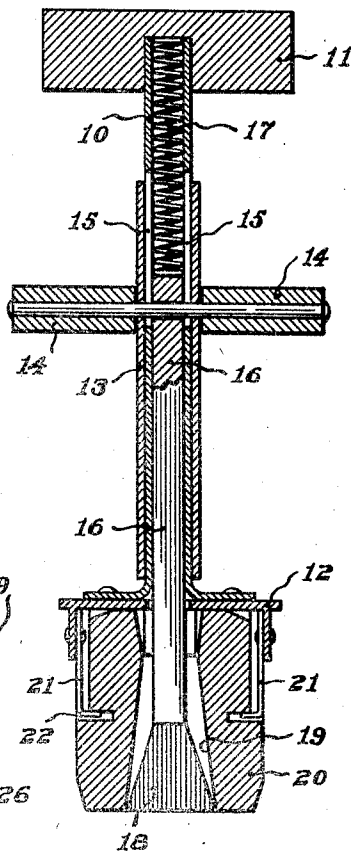


Fig. 2.

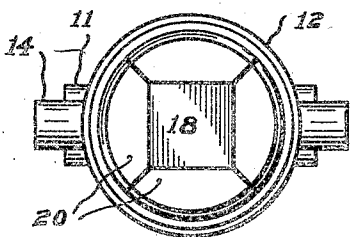


Fig. 3.

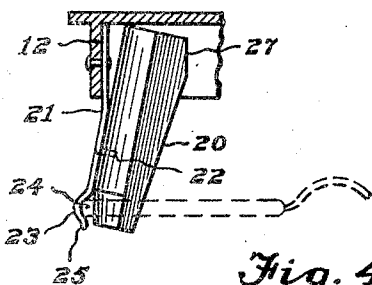


Fig. 4.

J. P. Baker.

WITNESS:

Frank DeNome.

INVENTOR

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UNITED STATES PATENT OFFICE.

FRANK DE NOME, OF PHILADELPHIA, PENNSYLVANIA.

GLASS-RIM STRETCHER.

Application filed July 18, 1923. Serial No. 651,906.

To all whom it may concern:

Be it known that I, FRANK DE NOME, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Glass-Rim Stretchers, of which the following is a specification.

This invention relates to devices for stretching rims for eyeglasses, and one of the objects is to produce a device of this nature which will expand the rim in all directions so as to give it a circular shape rather than an elliptical one.

Another object is to produce a device of this nature which may be operated with one hand, leaving the other hand free to make adjustments desired.

Another object of the invention is to produce a device of this nature which shall be simple of construction, consisting of few parts, cheap and easy to manufacture and assemble, and highly efficient for the purpose for which it is designed.

With these and other objects in view, the invention resides in certain novel features of construction and combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which:—

Figure 1—is a view in elevation of my improved eyeglass rim stretcher.

Figure 2—is a vertical sectional view of the same.

Figure 3—is a bottom plan view.

Figure 4—is a sectional detail illustrating the expansion movement of the teeth.

Figure 5—is a view in elevation of one of the teeth.

Like characters of reference refer to like parts in all views.

Referring to the drawing in detail, 10 represents a tubular handle member provided with a finger-piece proper 11 at one end and with a cupped element 12 at the other. Slidably mounted on the outside of the member 10 is a sleeve 13 through which passes a through-pin 14, the same being movable in slots 15 formed in the handle member 10. Mounted on the through-pin 14 is a longitudinally movable plunger 16 which is constantly forced outwardly by a spring 17. The end of the member 16 is

in the form of a cone or pyramid at 18 so as to co-act with the angular faces 19 of a plurality of segments 20.

These segments 20 are shown here as being four in number, but more could be used if it at any time should be found desirable. The segments are held in the cupped element 12 by means of spring members 21 which are riveted to the cupped element 12 and provided with heels 22 fitting in notches in the exterior surface of the segments. The exterior formation of the four segments is that of a comparatively small cylinder. Two of the members 21 are extended downwardly into fingers 23 having cupped-out portions 24 to receive and hold the rim and are bent or flared outwardly at 25 so as to permit the easy entrance of the rim between the segments and the members 24.

In operation, the eyeglass rim is slipped on the end of the segments 20 and held in place by the grips 24. The entire device is then set in a pan of hot water until the rim softens. The operator then backs up the device, pressing downwardly on member 11 and pulling upwardly on the ends of pin 14. This brings up the portion 18 of the plunger 16 and forces the segments 20 outwardly equal distances in their respective directions thereby stretching the rim to the desired extent. The bottom outer edge of these segments are tapered so that during the process of stretching the eyeglass rim both sides of the groove in the rim will be stretched uniformly, and parallel with the rim proper. Graduations or scales 26 indicate the extent to which the rim has been stretched and the segments 20 are cut away at 27 so as to permit them to rock freely as is necessary for this operation.

While I have described what I deem to be the most desirable embodiment of my invention, it is obvious that many of the parts may be varied without in any way departing from the spirit of my invention, and I therefore do not limit myself to the exact details of construction herein shown nor to anything less than the whole of my invention limited only by the appended claims.

What I claim is:—

1. An eye glass rim stretcher comprising a cup member, a plurality of movable segments, flat springs carried by the cup member and engaging said segments for connect-

- ing the segments to the cup member, a plunger movable along said segments for spreading the segments, certain of said segment-engaging springs having downwardly extending fingers formed on their ends remote from the cup member and provided with cupped-out portions to receive and hold an eye glass rim.
- 5 2. An eye glass rim stretcher comprising a cup member, a plurality of movable segments, flat springs carried by the cup member and engaging said segments for connecting the segments to the cup member, said segments provided with inclined surfaces, a plunger, a flared end on said plunger for engagement with said inclined surfaces for spreading said segments, certain of said segment-engaging springs being extended to form fingers having cupped-out portions to receive and hold an eye glass rim.
- 10 In testimony whereof I affix my signature.
- FRANK DE NOME.