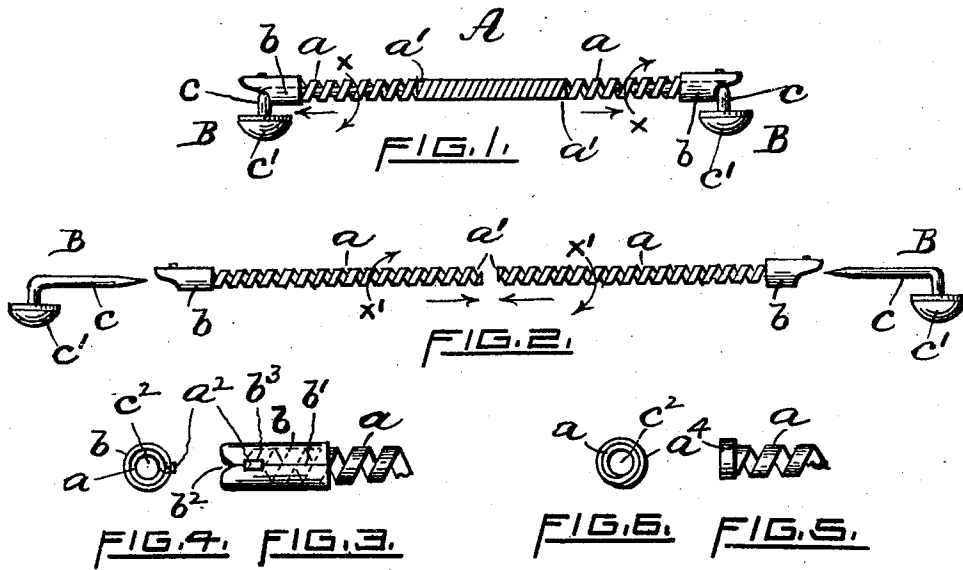


F. S. REYNOLDS.
ADJUSTABLE COLLAR SUPPORTER.
APPLICATION FILED FEB. 5, 1910.

968,801.

Patented Aug. 30, 1910.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRED S. REYNOLDS, OF CRANSTON, RHODE ISLAND.

ADJUSTABLE COLLAR-SUPPORTER.

968,801.

Specification of Letters Patent. Patented Aug. 30, 1910.

Application filed February 5, 1910. Serial No. 542,298.

To all whom it may concern:

Be it known that I, FRED S. REYNOLDS, a citizen of the United States, residing at Cranston, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Adjustable Collar-Supporters, of which the following is a specification.

This invention relates to adjustable supporters for ladies' soft or lace collars, and it consists in the novel features of construction, all as hereinafter set forth and claimed.

The essential objects of this invention are to produce in an inexpensive manner a collar-supporter possessing flexibility and at the same time being capable of longitudinal adjustment; the article being simple in construction, adapted to be easily and readily adjusted so as to vary its length, it is self-locking, and not liable to become accidentally inoperative.

In the accompanying sheet of drawings, Figure 1 represents a side elevation of a collar-supporter, complete, embodying my improvements, a collar being omitted; Fig. 2 is a similar view, showing the several members of the device disconnected; Fig. 3 shows in enlarged scale a side view of the outer end or head portion of the flexible shank or body; Fig. 4 is a corresponding end view; and Figs. 5 and 6 represent corresponding side and end views of a modified form of the head or tip.

In my improved supporter A the shank or body part is preferably cylindrical and hollow and consists of a pair of open-wound, intertwined, helically-coiled members *a* formed from suitable wire having a degree of flexibility and elasticity. I prefer to use thin, narrow, or ribbon-like wire stock, although wire having other forms cross-sectionally may be employed. In coiling the wire, whether as a right-hand or a left-hand helix, the same is wound so as to produce a clear space or opening between and parallel with the several helices equal to the width of the wire itself. It may be stated here that the thus helically-wound stock is produced in comparatively great lengths, which are subsequently transversely severed into shorter pieces having any desired length; the adjacent ends of the wire of each pair of members *a* may be somewhat pointed, as indicated at *a*¹, Fig. 2, so as to readily co-operate when the two members are to be

intertwined or interwound to produce the shank or body part.

The outer or free end of each member *a* is mounted in an annular split tip or collar *b*, formed from thin sheet metal. The longitudinal joint or meeting edges of the seam *b*¹ (Fig. 3) is unsoldered and provided near its outer end with a notch or recess *b*², constructed to receive and hold the laterally bent end *a*² of the spring or member *a*. The V-shaped end portion, *b*², serves to facilitate the forcible introduction of the part *a*² into the recess, the edges of the joint *b*¹ then springing together immediately thereafter.

B indicates a relatively short pin member adapted to be removably mounted in the tip end of the shank *a*. The front, *c*¹, of the pin may be plain or ornamented, and provided with a pointed wire stem *c* adapted to pierce the collar of the user and also adapted to be inserted in the bore or inner space *c*² of the shank *a* and retained therein by frictional contact with it.

In lieu of the said split collar member *b*, the stock itself of the outer end part of the helical shank *a* may be bent around said portion, thereby forming an integral collar *a*¹, as clearly shown in Figs. 5 and 6.

The manner of operation is as follows: Assuming first, however, that each shank member *a* is provided, say with a tip or head part *b*, as indicated in Fig. 2; now, upon moving the two alining members *a* endwise in the arrow direction until the ends *a*¹ engage each other, followed by turning one or both members *a* in the angular directions, indicated by the respective arrows *x*¹, they become intertwined or screwed together. The movement, if continued to its limit, causes the ends *a*¹ to contact with the inner ends of the collars *b*, the shank then being in its shortest or contracted state. In attaching the device to a lace collar the body part of the former is first suitably positioned by the user, followed by readily inserting the stems *c* of the pins B through the collar and into the respective tipped ends of the shank, the neck of each stem then resting in the adjacent part of the tip, as clearly shown. In order to lengthen or distend the device, the two shank members *a* are rotated in the arrow directions *x*, indicated in Fig. 1. It is obvious, however, that the same result is attained by rotating one member, the other

at the same time being held stationary. A contrary movement results in shortening the device.

What I claim as new and desire to secure by United States Letters Patent is:

1. As an improved article of manufacture the longitudinally adjustable collar-supporter substantially as herein described, the same consisting of a flexible shank portion comprising a pair of tubular helically coiled intertwined members fashioned from wire, an enlarged integral head formed on the outer end of each of said members by bending the corresponding portion of the wire, and a pair of pins, each provided with a stem adapted to be inserted in the respective headed outer ends of the said flexible shank.

2. In a longitudinally adjustable collar-supporter of the general character described, a flexible body or shank portion consisting of a pair of interengaging helically coiled tubular members made from wire, and having the wire at the outer end of each of the said tubular members extended and bent to form an enlarged transverse head part integral therewith and disposed with relation to the central bore of the tube.

In testimony whereof, I have affixed my signature in presence of two witnesses.

FRED S. REYNOLDS.

Witnesses:

GEO. H. REMINGTON,
CALVIN H. BROWN.