

May 20, 1930.

E. WEINTRAUB
COVERED ELASTIC CORD
Filed July 23, 1929

1,759,497

Fig. 1

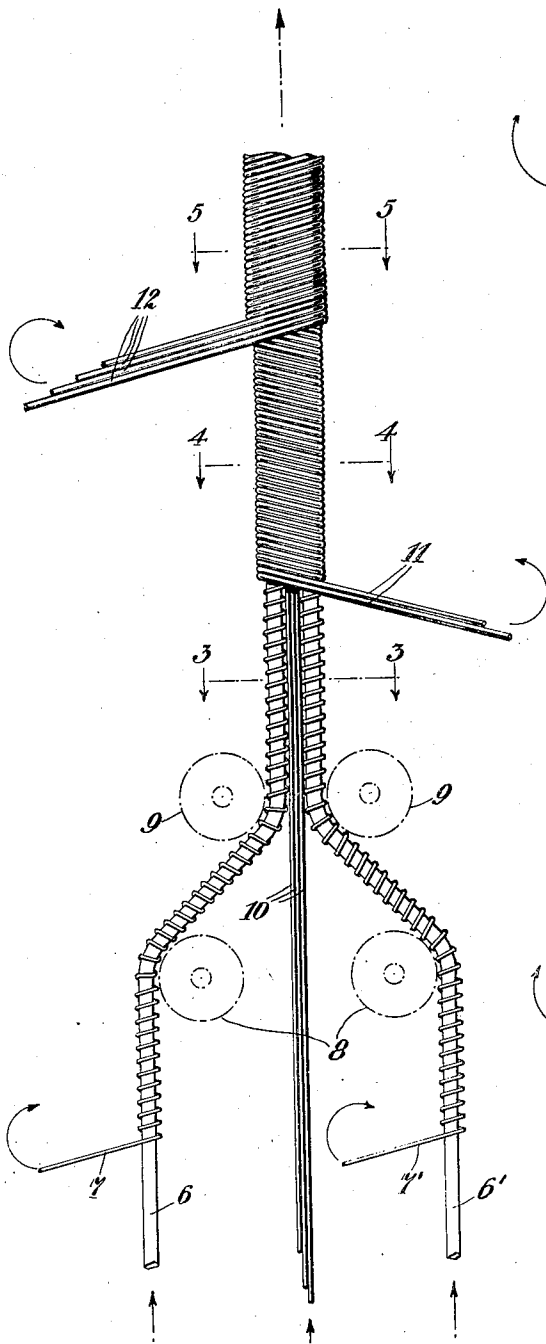


Fig. 2

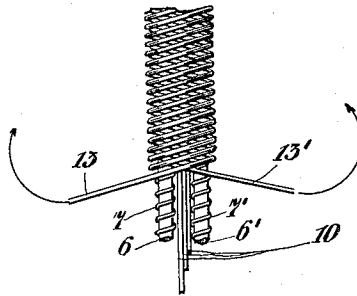


Fig. 3

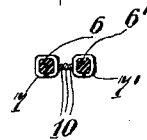


Fig. 4

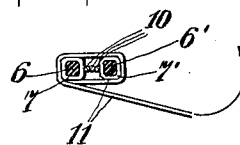
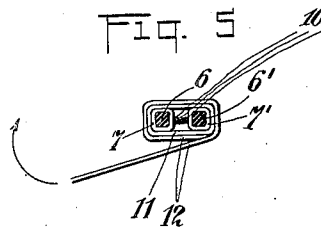


Fig. 5



INVENTOR
EDWARD WEINTRAUB
BY *O. Edwards*
ATTORNEY

UNITED STATES PATENT OFFICE

EDWARD WEINTRAUB, OF BROOKLYN, NEW YORK

COVERED ELASTIC CORD

Application filed July 23, 1929. Serial No. 380,443.

The object of this invention is to provide an elastic cord which is composed of a plurality of elastic threads, each of which is wound with a protecting thread of cotton, silk, or similar material, and after being so wound, while under tension, limiting threads are brought between them, and thereafter protecting threads are wound over all of them in the conventional manner, so as to produce a thread of limited elasticity, and in which the limiting threads will not wrap around any of the elastic threads, so that each elastic thread may function true and wear true and be protected at all times, and stretch not beyond a predetermined limit. This object produces a thread which is cheap, durable and efficient, and better adapted for the purposes of elastic cords than those heretofore made.

For a more detailed description of my invention, reference is to be had to the accompanying drawings, forming a part hereof, in which

Figure 1 shows my improved cord and portions of the machine necessary for its manufacture;

Figure 2 shows a modification thereof; and

Figures 3, 4, and 5 are sectional views taken on the lines 3—3, 4—4 and 5—5 respectively, looking in the direction of the arrows.

Throughout the various views of the drawings, similar reference characters designate similar parts.

My improved cord is composed of a plurality of elastics 6—6', over each of which is spirally wound in the conventional manner with suitable spacing between each convolution and its neighbors, the threads 7—7' and each of these threads may be of cotton, silk, linen or other suitable material. The elastics may be in any suitable cross section, although they are preferably square in cross section or nearly so, and after being wound with the protecting threads 7—7', as above stated, they are passed over the rollers 8, and then brought near together between the rollers 9 and between these threads is placed a plurality of limiting threads 10. This plurality of threads 10 is placed taut while the elastic threads on each side are under tension and while all of these threads are so held, as above

stated, covering threads 11 and 12 are applied in the conventional way and preferably oppositely wound, and thereafter the cord is completed and when the tension is removed, the elastic threads 6—6' contract and the plurality of threads 10 will loosen between the elastic threads, but in no way interfere with their action or come in contact with them to an extent sufficient to cause them to twist around these threads or to in any way interfere with their functioning except that it does limit their stretching, as is obvious.

In the modification shown in Figure 2, threads 13—13' are employed as covering threads and each of these is single instead of the plurality of covering threads 11 and 12. Moreover these single covering threads are wound with spaced spirals.

In view of the foregoing, the functioning of the threads will be readily understood. The elastic threads 6—6' stretch and retract according to the tension on them, and they are limited in this extension by the limiting threads 10 and the threads 10 rest against the spirally wound threads 7—7', but do not interfere with the elastics otherwise than above stated, so that at all times the results are obtained which are above specified.

While I have shown and described one embodiment of my invention, it is obvious that it is not restricted thereto, but that it is broad enough to cover all structures that come within the scope of the annexed claim.

Having thus described my invention, what I claim is:

A covered elastic cord composed of a plurality of spirally wrapped elastic threads, a plurality of adjacent limiting threads interposed between said elastic threads, and a series of oppositely wound covering threads over the elastic and limiting threads.

In testimony whereof, I have hereunto set my hand this 23rd day of July, 1929.

EDWARD WEINTRAUB.