

No. 848,300.

PATENTED MAR. 26, 1907.

A. Y. FOLTZ.
BELT STRETCHER AND TIGHTENER.
APPLICATION FILED DEC. 18, 1906.

FIG. 1.

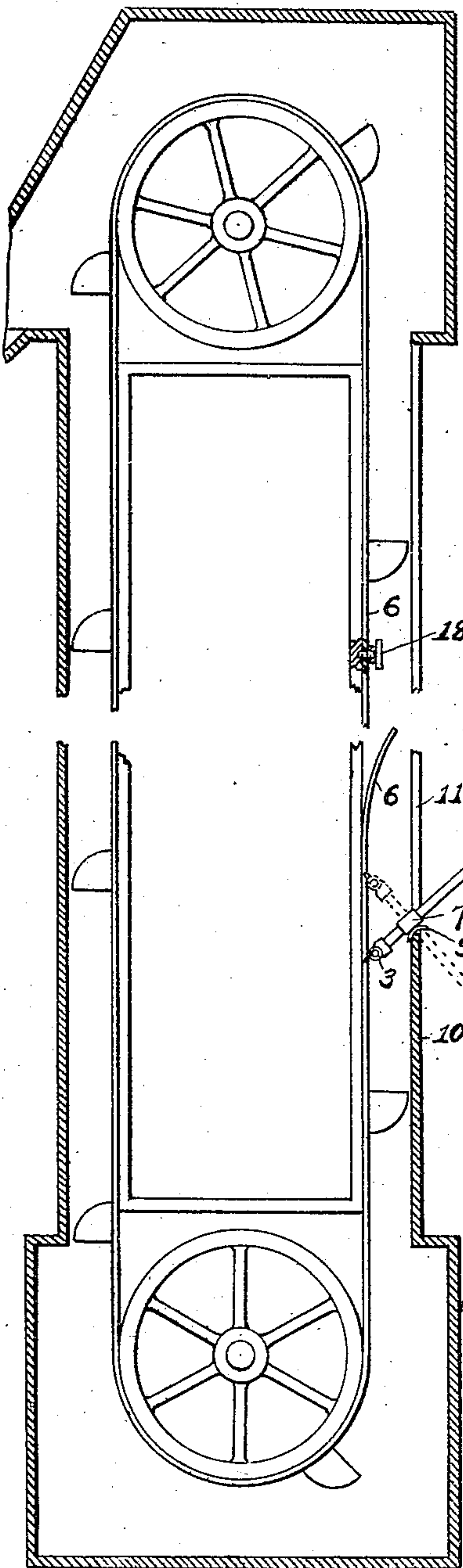


FIG. 2.

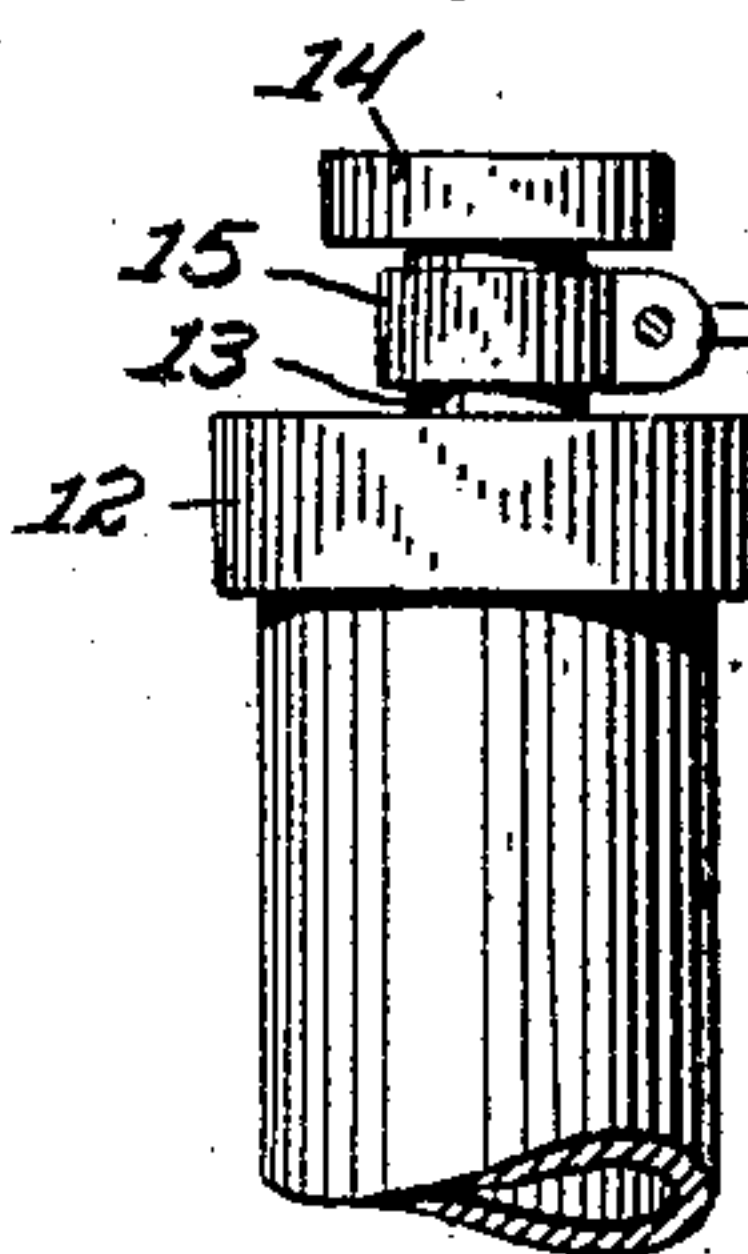
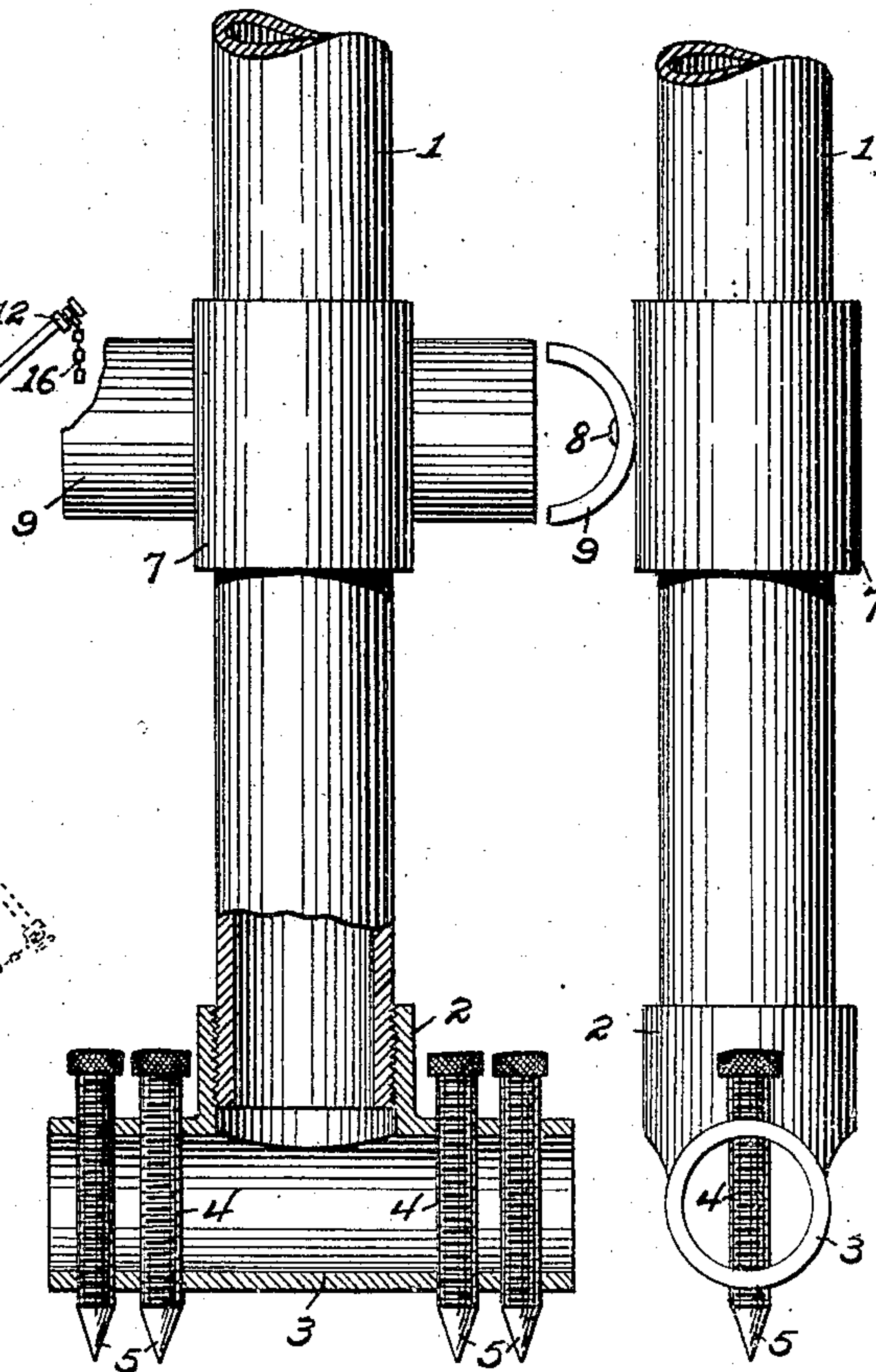
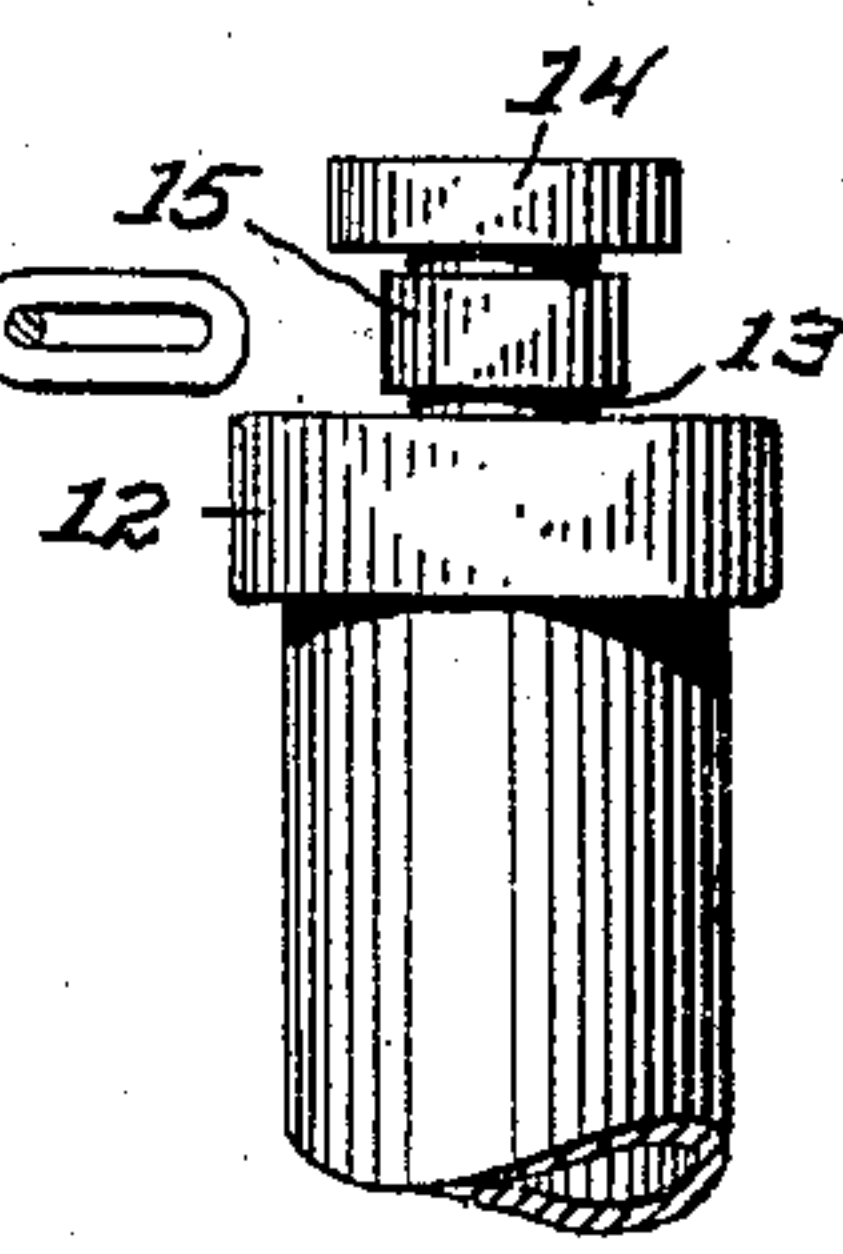


FIG. 3.



WITNESSES:

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BELT STRETCHER AND TIGHTENER.

No. 848,300.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed December 18, 1906. Serial No. 348,397.

To all whom it may concern:

Be it known that I, ALBERT Y. FOLTZ, a citizen of the United States of America, and a resident of Salem, county of Columbiana, and State of Ohio, have invented certain new and useful Improvements in Belt Stretchers and Tighteners, of which the following is a specification.

My invention relates to new and useful improvements in stretchers or tighteners for belts, and more particularly to a tightener for elevator-belts; and it consists in the particular construction, arrangement, and combination of parts, which will hereinafter be fully described.

The object of the invention is to provide a simple, inexpensive, durable, and efficient tool by means of which the belts of flour-mill elevators and the like may be conveniently stretched preparatory to lacing the ends thereof.

In describing the invention in detail reference is herein had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a vertical sectional view of an elevator-leg, showing the tool applied in belt-stretching position. Fig. 2 is a front view of the tool, and Fig. 3 is a side view of the same.

Referring to said drawings, in which like reference-numerals designate like parts throughout the several views, 1 indicates the stock or lever, consisting, preferably, of gas-pipe, one end of which is screwed within the stem 2 of a tubular head 3, which stands at right angles to said lever. Projected centrally through said head so as to lie substantially parallel to the lever 1 is a plurality of adjustable screws 4, having sharp-pointed ends 5, adapted to sink into the belt 6 to be stretched.

Slidably mounted on the lever or stock 1 intermediate its ends is a collar 7, to which is pivoted at 8 a rest plate or bar 9, preferably arcuate in cross-section, which is intended to stand at substantially right angles to the stock or lever and which is adapted for mounting on the elevator-leg 10 at the lower end of the opening or door 11 therein, as shown in Fig. 1.

Rigidly mounted on the outer end of the stock is a cap 12, having an integral stem 13, which has a head 14 on its outer end. Loosely mounted on said stem 13 is a collar 15, to which is attached a chain 16. The free

end of said chain is adapted to be engaged by a hook 17, provided in the elevator-leg at a suitable point for holding the lever rigidly when thrust downward to the limit of its stretching movement. Previous to the stretching operation the upper of the adjacent belt ends is rigidly secured to the elevator-leg in any appropriate manner, as by a screw 18 projected through the belt into said leg, as shown in Fig. 1.

The head 3, being tubular in form, rolls easily upon the belt with which the points 5 are in engagement in moving the lever from one position to another without any attendant danger of disengagement of said points from the belt, which latter would be the case were a plain flat face presented by said head.

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

1. In a belt-stretcher, a stock, a tubular detachable head carried by said stock, and adjustable pointed screws carried by said head substantially parallel to said stock.

2. In a belt-tightener, a tubular head, a stock screwed within said head at right angles thereto, and belt-engaging means carried by said head.

3. In a belt-stretcher, a stock, a tubular head carried by one end of said stock at substantially right angles thereto, belt-engaging means carried by said head, and a rest-bar carried by said stock.

4. In a belt-stretcher, a stock, a head carried by said stock, belt-engaging means carried by said head, and an arcuate rest-plate adjustably and pivotally carried by said stock.

5. In a belt-tightener, a stock, a head carried by said stock, belt-engaging means carried by said head, a collar slidable upon said stock, and a rest-plate carried by said collar.

6. In a belt-tightener, a stock, a head carried by said stock, belt-engaging means carried by said head, a collar slidable upon said stock, and a rest-plate pivoted to said collar.

7. In a belt-tightener, a stock, a head carried by said stock, belt-engaging means carried by said head, a collar slidable upon said stock, and a rest-plate, arcuate in cross-section, pivotally attached to said collar and adapted for standing transversely of the stock.

8. In a belt stretcher and tightener, a stock, a belt-engaging head carried by said stock, a rest-plate adjustably mounted upon

said stock, a cap on the outer end of said stock, said cap having an integral stem, a loose collar carried by said stem, and a chain attached to said collar.

5 9. In a belt stretcher and tightener, a stock or lever, a head detachably mounted on one end of said lever, said head being tubular in form and standing at right angles to said lever, adjustable screws mounted in said
10 head, said screws having belt-engaging points, a collar slidably mounted on said lever, a rest-bar pivotally mounted on said collar, and means carried by the outer end of the lever whereby the latter may be secured
15 in adjusted position.

10. In a belt stretcher and tightener, a tu-

bular lever, a head carried by said lever, said head being tubular in form and standing at right angles to said lever, a plurality of screws projected through said head, said
20 screws having belt-engaging points, an arcuate rest-bar adjustably and pivotally carried by said lever, a cap on the outer end of said lever, said cap having a stem, a loose collar on said stem, and a chain attached to said
25 collar, substantially as described.

In testimony whereof I affix my signature in presence of two subscribing witnesses.

ALBERT Y. FOLTZ.

Witnesses:

E. E. HANNA,

R. C. KRIDLER.