

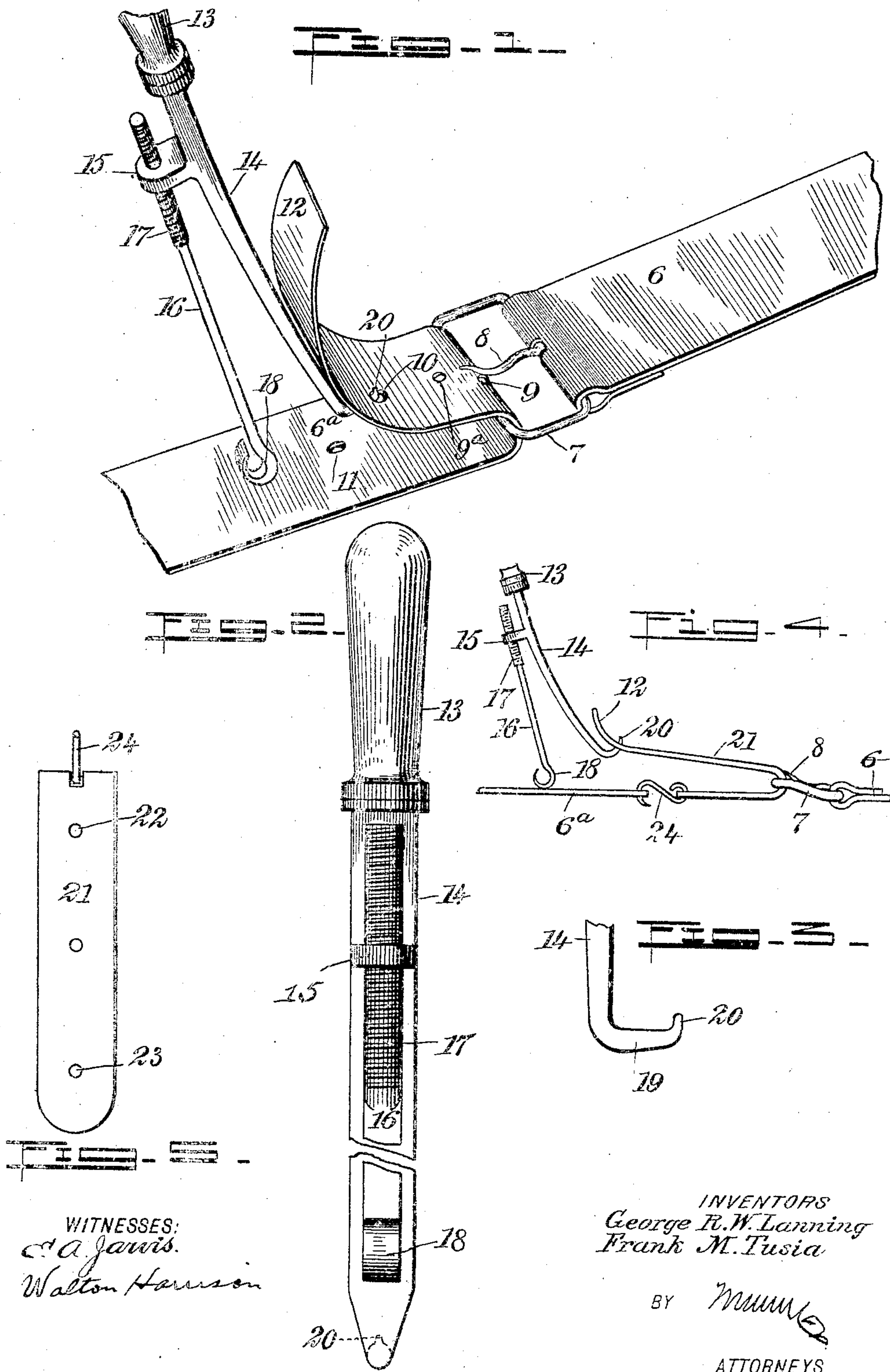
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G. R. W. LANNING & F. M. TUSIA.

BELT TIGHTENER.

APPLICATION FILED MAY 16, 1904.



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# UNITED STATES PATENT OFFICE.

GEORGE R. W. LANNING AND FRANK M. TUSIA, OF EGAN, SOUTH DAKOTA.

## BELT-TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 786,651, dated April 4, 1905.

Application filed May 16, 1904. Serial No. 208,150.

*To all whom it may concern:*

Be it known that we, GEORGE R. W. LANNING and FRANK M. TUSIA, citizens of the United States, and residents of Egan, in the county of Moody and State of South Dakota, have invented a new and Improved Belt-Tightener, of which the following is a full, clear, and exact description.

Our invention relates to belt-tighteners, our more particular object being to produce a neat, simple, efficient, and reliable tightener and which admits of a certain amount of adjustment.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a fragmentary perspective view of the tightener in use. Fig. 2 is an elevation of the tightener as viewed from the left of Fig. 1 and somewhat enlarged. Fig. 3 is a side elevation of the hook for engaging the holes in the belt. Fig. 4 is a reduced perspective view of the tightener as employed, together with an auxiliary strap; and Fig. 5 is a plan view of the strap alone.

As shown in Fig. 1, the belt 6 is provided at one end with a buckle 7, having a tongue 8, adapted to enter any one of a series of holes 9, 9<sup>a</sup>, 10, and 11 in the other end, 6<sup>a</sup>, of the belt, which end terminates in a tongue portion 12. The handle of the tightener is shown at 13, and rigidly secured upon this handle is a shank 14, provided with a threaded lug 15, preferably integral therewith. A rod 16 is provided with a threaded cylindrical portion 17, engaging the threaded lug 15, and is free to turn relatively thereto, so as to adjust the position of the rod 16 relatively to the shank 14. The lower end of the rod 16 is provided with a shoe 18, preferably integral therewith. The lower end of the shank 14 terminates in a hook 19, provided with an upturned point 20.

When the tightener is to be used, the tongue portion 12 of the belt 6 is drawn through the buckle 7 and the point 20 of the shank 14 is passed upwardly through one of the holes 9, 9<sup>a</sup>, 10, or 11, as indicated in Fig. 1. The handle 13 is now grasped rigidly by the hand and pulled away from the buckle 7, the shoe 18 engaging the surface of the portion 6<sup>a</sup> of the belt. The tongue portion 12 is thus grad-

ually drawn through the buckle 7 until the metallic tongue 8 of the buckle can engage in succession the unoccupied holes 9, 9<sup>a</sup>, 10, or 11, so as to give the belt the requisite degree of tightness.

In cases where the belt is short, so that difficulty is experienced in drawing the ends thereof together, an auxiliary strap 21 may be used, virtually lengthening the belt. This strap is provided with holes 22 and 23 and with a hook 24, this hook being brought into engagement with one of the holes 9, 9<sup>a</sup>, 10, or 11 of the portion 6<sup>a</sup> of the belt 6. The auxiliary strap 21 is passed partially through the buckle 7, and one of its holes 22 or 23 is engaged by the hook 20. The handle 13 is now manipulated, as before described, so that the hook 20 of the shank 14 pulls directly upon the auxiliary strap, and thus brings the ends of the belt together, so that the belt may be fastened by means of the buckle in the same manner as above described with reference to Fig. 1.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A belt-tightener comprising a shank provided with a lug integral therewith, said shank being further provided with a handle and with a hook for engaging holes in the belt, and a rod passing through said lug and adjustable relatively thereto.

2. A belt-tightener comprising a shank portion provided with a lug and with a hook, a handle mounted upon said shank portion, and a rod connected with said lug and movable relatively thereto for purposes of adjustment.

3. A belt-tightener comprising a shank portion provided with a lug and with a hook, a handle mounted upon said shank portion, and a rod connected with said lug and provided with a shoe for resting upon the surface of the belt.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

GEORGE R. W. LANNING.  
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Witnesses:

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