(No Model.)

W. L. CHIPLEY.

BELT TIGHTENER.

No. 590,208. Patented Sept. 21, 1897.

Fig. 1.

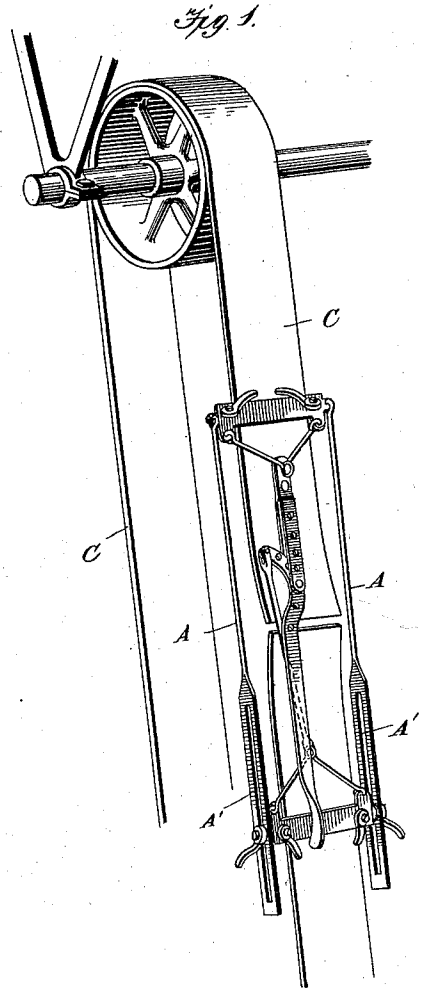


Fig. 2.

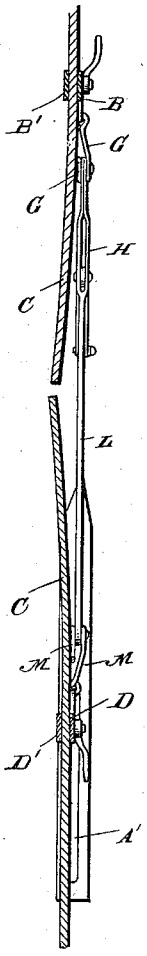


Fig. 3.

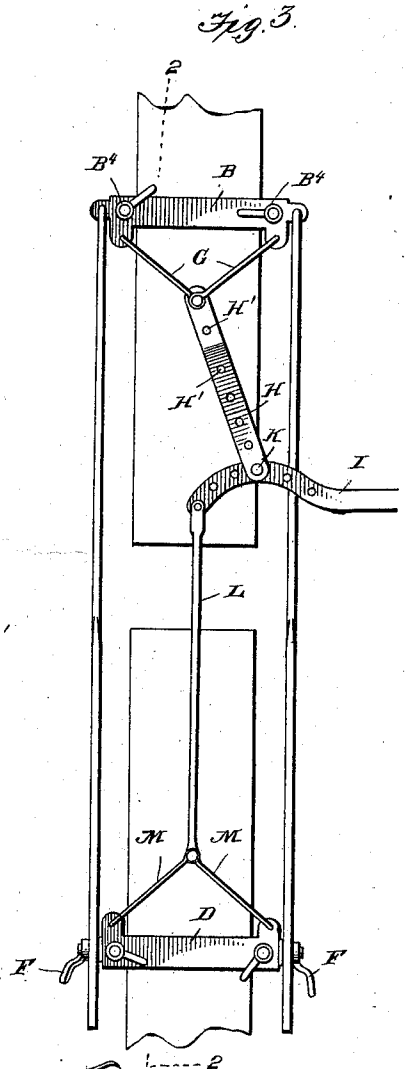
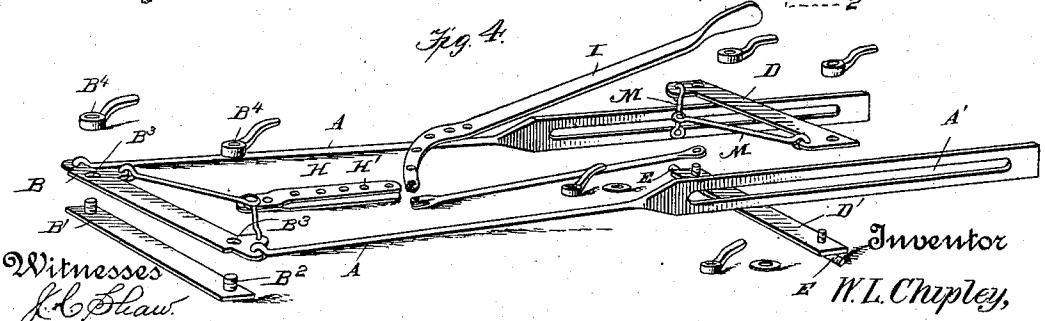


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM LEE CHIPLEY, OF LA MONTE, MISSOURI, ASSIGNOR OF ONE-HALF TO JOE E. MAUPIN, OF SAME PLACE.

BELT-TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 590,208, dated September 21, 1897.

Application filed October 24, 1896. Serial No. 609,929. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LEE CHIPLEY, residing at La Monte, in the county of Pettis and State of Missouri, have invented a new and useful Belt-Tightener, of which the following is a specification.

This invention relates generally to a belt-tightener, and more particularly to one adapted for taking up the slack in a belt or crimping the said belt preparatory to relacing the same.

The object of the invention is to provide a cheap and simple device which can be quickly and easily placed upon the slack belt, quickly and easily operated to draw up the slack, and one that can be fastened in such position while relacing the belt.

Another object of the invention is to provide a device of the kind described in which the drawing mechanism can be removed after the slack has been taken up, so that the operator will have ample room for lacing the belt.

With these objects in view my invention consists in the improved construction, arrangement, and combination of parts hereinafter fully described and afterward specifically pointed out in the appended claim.

In the drawings forming a part of this specification, Figure 1 is a view showing the practical application of my invention. Fig. 2 is a sectional view on the line 2 2 of Fig. 3. Fig. 3 is a plan view showing the operation of the device. Fig. 4 is a view showing the various parts of the device detached.

In carrying out my invention I employ the side rods or bars A, said rods or bars being enlarged at their lower ends and slotted, as shown at A'.

At one of their ends the side rods or bars are attached to the ends of the clamp-plate B, said clamp-plate B coacting with a similar plate B', carrying the screw-bolts B^2, which pass through the openings B^3 in the plates B and receive the hand-nuts B^4, by means of which the clamp is fastened upon the belt C.

Similar clamp-plates D and D' are fastened upon the belt, the clamp-plates D' having the laterally-projecting screw-bolts E, which work in the slots A' and receive the hand-nuts F upon their outer ends, as most clearly shown in Figs. 1 and 3, and by means of which this clamp can be rigidly fastened between the side bars.

Link-rods G are attached to the clamp-plate B, said link-rods in turn being pivotally connected to a bar H, having a series of apertures H', said bar H being preferably made double, as clearly shown in Figs. 1, 2, and 4, although such construction is not at all necessary, and pivotally connected with the bar H is a lever I, pivotally connected by means of a pin K, the end of the lever I being pivotally connected with a pull-rod L, which is connected at its lower end with the link-rods M, which in turn connect with the clamp-plate D in the same manner as the link-rods G connect with the clamp-plates D.

When the lever is thrown down, the clamps are thrown toward each other, and consequently the slack of the belt is taken up between the two clamps and the operator can then manipulate the belt in the proper manner to take up the slack.

In operation the clamps are fastened to the belt, the nuts F slackened, and it will of course be understood that the lever I is raised, as shown in Fig. 3, when the clamps are attached. This lever I is then thrown down to the position shown in Fig. 1, and by so doing the clamps are drawn toward each other and the slack taken up. The nuts F are then tightened securely, locking the clamp D in place between the said bars or rods, and in case sufficient slack has not been taken up the lever is again thrown up and the pin K removed and placed in the next perforation higher of the bar H. The nuts F are again slackened, the lever I thrown down, and the clamps B and D again drawn toward each other. The nuts F are then again tightened, the pin K removed, and the lever and the bolt-rod turned to one side in order to give the operator ample room to work upon the belt.

This device, constructed as herein shown and described, can be manufactured at a very small cost, can be quickly applied and operated, and is thoroughly efficient in the performance of all its functions.

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

In a belt-tightener, the combination of a pair of parallel side rods slotted at one end, a clamp secured to one end of said rods, a second clamp having screw-threaded ends projecting through said slots, nuts on said rods to hold the clamp at any position in the slots, and means for drawing the clamps toward each other, substantially as set forth.

WILLIAM LEE CHIPLEY.

Witnesses:
J. L. LAUTZ,
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