

P. A. COUPAL.
WELT GUIDE.
APPLICATION FILED JULY 28, 1911.

1,030,285.

Patented June 25, 1912.

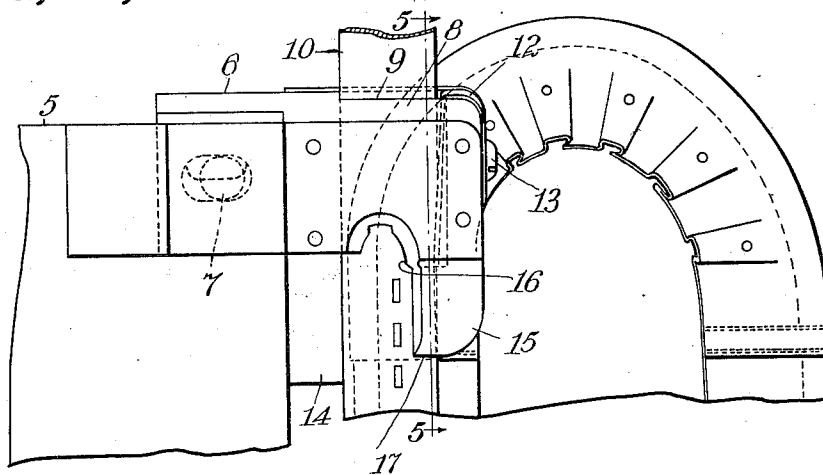


Fig. 1.

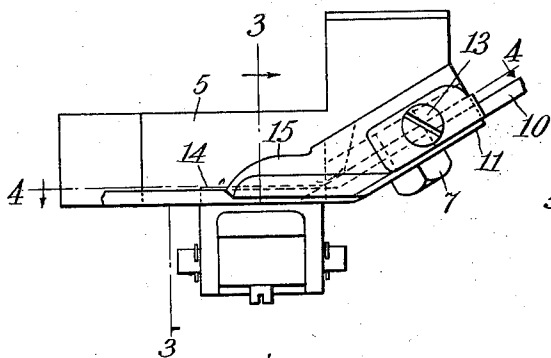


Fig. 2.

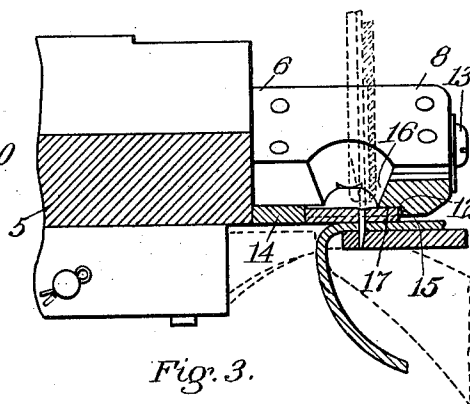


Fig. 3.

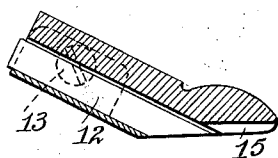


Fig. 5.

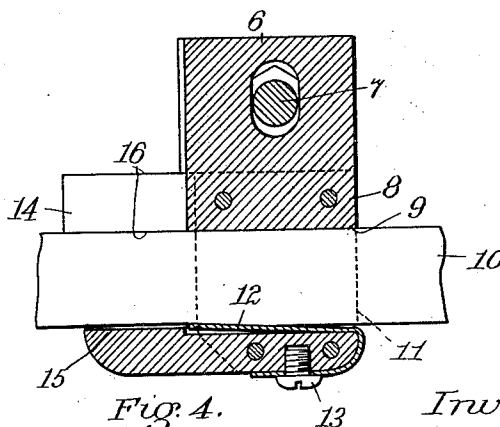


Fig. 4.

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UNITED STATES PATENT OFFICE.

PETER A. COUPAL, OF SOUTH BOSTON, MASSACHUSETTS, ASSIGNOR TO BUFFALO SHOE CO., OF BUFFALO, NEW YORK, A CORPORATION OF WEST VIRGINIA.

WELT-GUIDE.

1,030,285.

Specification of Letters Patent.

Patented June 25, 1912.

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To all whom it may concern:

Be it known that I, PETER A. COUPAL, a citizen of the United States, residing at South Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Welt-Guides, of which the following is a specification.

This invention relates to improvements in welt guides to be used in connection with staple, nail or peg driving machines to facilitate the attachment of a welt or rand and has for its object first to provide means whereby welts of various widths may be automatically accommodated and accurately guided, and second to provide means for guiding the welt in a downwardly inclined path toward the shoe and thence guiding the welt along its edges and upon its upper face as it is fed onto the shoe during the operation of attaching the same by means of staples or the like so that the welt will be smoothly applied to the shoe by the welt guide or other mechanism and will remain substantially flat and free from the usual puckering around the toe.

To these ends, my invention consists in the novel features of construction and in the combination and arrangement of parts set forth in the following specification and particularly pointed out in the claims.

Referring to the drawings: Figure 1 is a plan of a welt guide embodying my invention and illustrating a shoe to which a welt is being applied, the welt being guided by the welt guide. Fig. 2 is an elevation of the welt guide as viewed from the right hand side of Fig. 1. Fig. 3 is a sectional view taken on line 3—3 of Fig. 2, looking toward the right. Fig. 4 is a sectional view taken on the irregular line 4—4 of Fig. 2. Fig. 5 is a sectional view taken on line 5—5 of Fig. 1.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, I have shown my improved welt guide applied to a staple driving machine, the latter being largely broken away and only such parts shown as are necessary to illustrate the application of my invention thereto. It will be understood that the invention is applicable to any suitable type of staple, nail or peg driving machine in which the material is fed automatically and the staples, nails or pegs driven through

the welt upper and inner sole of the shoe and clinched against a horn within the shoe.

In the drawings, 5 is a part of the front of the machine forming a support for a block 6 which is adjustably fastened by means of a bolt 7. Forming a part of the block 6 is a throat 8 having therein a downwardly inclined passage 9 to receive the welt 10, said passage having its bottom formed by a plate 11 and having at its front edge a suitable yielding means to engage one edge of the welt and hold the opposite edge thereof against the opposite side of the passage 9 so as to automatically accommodate welts of varying widths and accurately guide the same. In the present instance, this means consists of a flat U-shaped spring 12 disposed longitudinally of the passage 9 at one side thereof and preferably having its free end extending toward the direction in which the welt is fed. The other end of the spring is fixed in any suitable manner as, for example, by bending the same onto the upper front face of the throat 8 and attaching it by means of a screw 13.

After the welt has passed through the downwardly inclined passage just described, it is guided horizontally along the top of the shoe by means of two edge guides 14 and 15 disposed in a horizontal plane at an angle to the throat and separated from each other by a slot 16 which is provided for the operation of the usual awls, feeding device and driver, which are indicated in dotted lines. The edge guide 15 is adapted to guide the welt after leaving said spring, said spring terminating in a face oblique to the opposite edges thereof and substantially parallel and in alinement with the lower edges of said edge guide 15.

In order that the welt may be held firmly in contact with the shoe and prevented from buckling and puckering, the edge guide 15 is provided with a lip 17 extending laterally toward the edge guide 14 and arranged to press on the top of the welt, while the under side of the guide 15 is located in a plane somewhat above the bottom of the guide 14 and above the plane of the bottom of the welt so as to afford a clearance at that point, thus enabling the usual upwardly pressed horn, shown in dotted lines in Fig. 3, to hold the welt with a firm pressure against the under side of the lip 17. In this way,

the welt is accurately guided and is smoothly applied without the buckling and puckering which are so often experienced in attaching welts by means of staples, nails and pegs in machines of this class.

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

1. A device of the class described having, in combination, a throat having a passage therethrough adapted to guide the top, bottom and one edge of the welt, an edge-guide disposed in a plane at an angle to said throat, a second edge-guide also disposed in said plane and separated from the first-mentioned edge-guide by a slot, a lip extending from said second-mentioned edge guide toward the other and constituting a presser to bear upon the top of the welt, and a U-shaped spring having one arm thereof extending longitudinally of the passage in said throat and terminating at a point adjacent to the starting point of said second-mentioned edge-guide, the other arm of said spring being secured to the outer forward face of said throat.

2. A device of the class described having, in combination, a throat having a passage therethrough adapted to guide the top, bottom and one edge of the welt, an edge-guide disposed in a plane at an angle to said throat, a second edge-guide also disposed in said plane and separated from the first-mentioned edge-guide by a slot, a lip extending from said second-mentioned edge-guide toward the other and constituting a presser to bear upon the top of the welt, and a flat spring secured to said throat, extending longitudinally of the passage in said throat and terminating in a face oblique to the opposite edges of said spring and substantially parallel and in alinement with the lower edge of said second-mentioned edge-guide.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

PETER A. COUPAL.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."