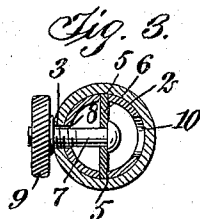
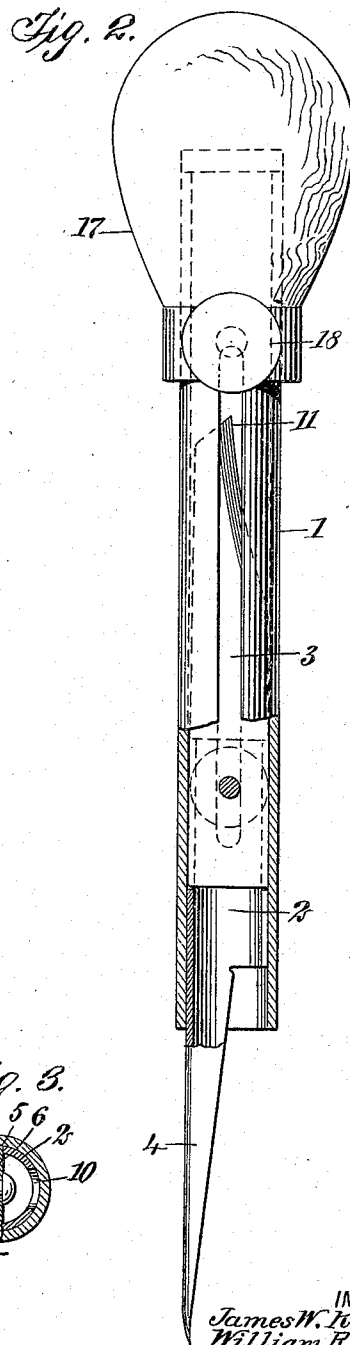


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JAMES W. KANE AND WILLIAM R. CHRISTIE, OF NEW YORK, N. Y.

BELT-LACING TOOL.

No. 930,765.

Specification of Letters Patent.

Patented Aug. 10, 1909.

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To all whom it may concern:

Be it known that we, JAMES W. KANE, a resident of the city of New York, borough of Manhattan, in the county and State of New York, and WILLIAM R. CHRISTIE, a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, both citizens of the United States, have invented a new and Improved Belt-Lacing Tool, of which the following is a full, clear, and exact description.

This invention relates to tools adapted to be used in lacing the ends of belts together.

It consists in a gouge which is adapted to cut openings in the belt of any size desired, and a slicing knife which is adapted to cut lacings for the belt of a size such that they will fill the openings cut by the gouge.

The invention further consists in the construction and combination of parts to be more fully described hereinafter and particularly pointed out in the claims.

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 views.

Figure 1 is a partial longitudinal section through the center of the device; Fig. 2 is a partial longitudinal section through the center of the device, taken at right-angles to the section shown in Fig. 1, parts being reversed in position; and Fig. 3 is a transverse section showing the method of binding the cutting member to the casing.

Referring more particularly to the separate parts of the device, 1 indicates a casing, in which is adapted to slide a gouge 2. The casing 1 is in the form of a hollow cylinder open at both ends and has a slot 3 running lengthwise of the casing. The gouge 2 has at one end a tapered cutter 4 which is concave and has converging knife edges on both sides. At the other end of the gouge is in the form of a hollow cylinder with a pair of registering slots 5. These slots 5 permit this end of the gouge to be sprung apart. A blade 6 is adapted to be inserted in this gouge at one end and serves to assist in binding the gouge to the casing. This is done by means of a screw 7, which is adapted to pass through an opening in the blade and also through an opening 8 in the gouge. The head end of the screw 7 fits up

against the blade, and the other end extends through the slot 3 in the casing 1 and is adapted to be engaged by a nut 9, having a knurled surface in order that it may be grasped more readily. In inserting the screw 7 in position, it is passed through an opening 10 in the gouge, which is of sufficient size to let the head of the screw 7 pass all the way through.

The blade 6 has a sharpened edge 11 which is adapted to slice belt lacings from any suitable material, such as rawhide. At the same end of the casing at which the blade 6 is located is supported a guide 12, adjustable relatively to the blade 6 and the casing 1. This guide 12 has a portion 13 extending at substantially a right angle to the main portion, and passing through an opening 14 in the casing 1, to steady the guide and prevent its rotating. The guide itself is supported on the casing by means of an adjusting screw 15, adapted to be screwed into and out of an opening in the casing 1, and on the screw 15 is a nut 16, which acts as a locking-nut to hold the guide 12 in adjusted position.

17 indicates a handle for the device. This handle is removably secured to the casing by means of a set-screw 18. This handle may be placed on either end of the device, according to which part it is desired to use.

The operation of the device is readily understood from the above description. In Fig. 2 the device is shown in the position in which it is used to gouge holes in the belt. The gouge is inserted in the belt up to the point where the width of the gouge will cut out the proper sized opening; then the whole tool is revolved and the material cut out of the belt. The handle 17 is then removed and the nut loosened and the tool shifted to the other end of the casing, where the blade 6 may be used. The gage 12 is then adjusted so that the distance between the knife edge 11 and the surface 19 of the guide corresponds to the width of the lacing desired. The blade 6 may then be used to slice a lacing from a strip of rawhide or the like. The blade 6 has the function of spreading the upper end of the gouge 2 apart so that one-half is bound by means of the screw 7 to the inner side of the casing 1, thus holding the tool in any adjusted position.

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

1. In a belt lacing tool, the combination

- with a casing, of a tool in said casing, having a slot therein, a blade adapted to fit in said slot, and fastening means for securing said blade to said tool and to said casing.
- 5 2. In a belt lacing tool, the combination with a casing, of a tool in said casing having a slot therein, a blade adapted to fit in the slot in said tool, and a screw fastened to said blade adapted to bind said tool to the
- 10 casing.
3. In a belt lacing tool, the combination with a casing, of a tool adapted to slide in said casing, a gouge on one end of said tool, and a slicing knife on the other end of said
- 15 tool.
4. In a belt lacing tool, the combination with a casing, of a gouge having a pair of slots therein and adapted to slide in said casing, a blade adapted to fit in said slots, and means engaging said blade, adapted to
- 20 bind said gouge to the casing.
5. In a belt lacing tool, the combination with a casing having a slot therein, of a gouge having a pair of slots therein and adapted to slide in said casing, a blade
- 25 adapted to fit in said slots in said gouge, and means engaging said blade, adapted to slide in said slot in said casing and bind the gouge to the casing.
- 30 6. In a belt lacing tool, the combination with a casing, of a gouge adapted to slide in said casing, and means for binding said gouge to the casing, said means including a blade having a sharpened edge.
- 35 7. In a belt lacing tool, the combination with a casing, of a gouge adapted to slide in said casing, a slicing blade connected to said gouge, and means connected to said blade adapted to bind said gouge to the
- 40 casing.
8. In a belt lacing tool, the combination with a casing, of a gouge adapted to slide in said casing, a slicing blade connected to said gouge, means connected to said blade
- 45 adapted to bind said gouge to the casing, and a gage for said blade on the casing.
9. In a belt lacing tool, the combination with a casing, of a blade adapted to be fastened to said casing, a guide adapted to
- 50 coact with said blade, a screw for adjusting said guide, and a lock-nut for said screw.
10. In a belt lacing tool, the combination with a casing having a perforation therein, of a blade adapted to be fastened to said
- 55 casing, a guide sliding in said perforation in said casing, a screw adapted to adjustably fasten said guide to the casing, and a lock-nut for said screw.
11. In a belt lacing tool, the combination with a casing having a slot running longitudinally thereof, a slotted gouge having a tapered knife edge adapted to slide in said casing, a blade having a sharpened edge adapted to fit in slots in said gouge, and a screw engaging said blade adapted to bind
- 60 the gouge to the casing and also adapted to slide in the slot in said casing.
12. In a belt lacing tool, the combination with a casing having a slot running longitudinally thereof, a slotted gouge having
- 70 tapered knife edges adapted to slide in said casing, a blade having a sharpened edge adapted to fit in slots in said gouge, a screw engaging said blade, adapted to bind the gouge to the casing and also adapted to
- 75 slide in the slot in said casing, a gage adjustably fastened to the casing adapted to coact with said blade, and a handle for the casing.
13. In a belt lacing tool, the combination
- 80 with a casing having a slot therein, of a slotted gouge having registering openings therein, a screw adapted to pass through one of said openings and engage another of said
- 85 openings, a blade engaging said screw and adapted to fit in slots in said gouge, means engaging said screw, adapted to bind the gouge to the casing, a guide slidably engaging said casing and adapted to coact with said blade, a screw engaging said casing
- 90 and said guide, adapted to adjust said guide relatively to the blade, a lock-nut for said screw, a handle for said casing, and means for removably fastening said handle to said casing.
- 95 14. In a belt lacing tool, the combination with a casing, of a tool slidable in said casing, having an integral cutting member thereon, and a removable cutting member secured to said tool and adapted to slide with
- 100 said tool in said casing.

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

JAMES W. KANE.
WILLIAM R. CHRISTIE.

Witnesses:

W. W. HOLT,
EVERARD B. MARSHALL.