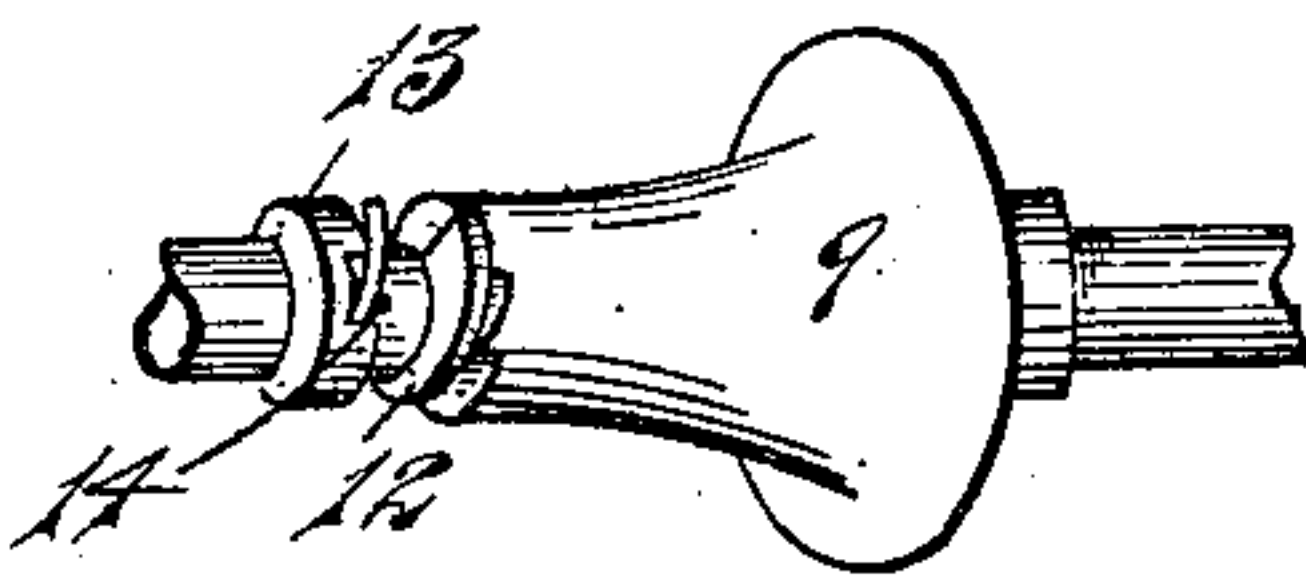
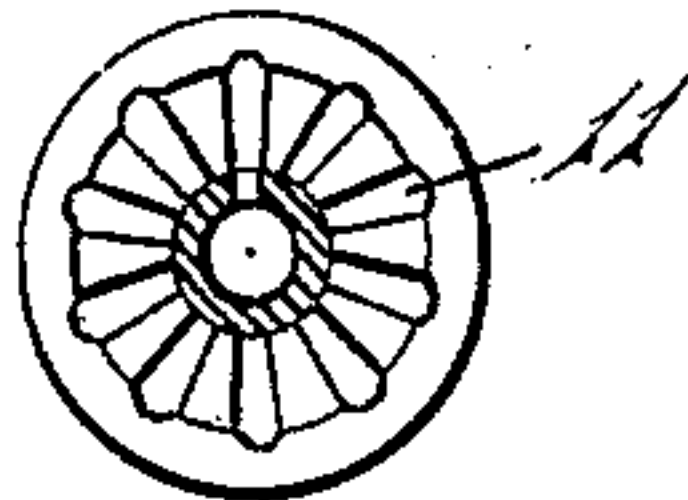
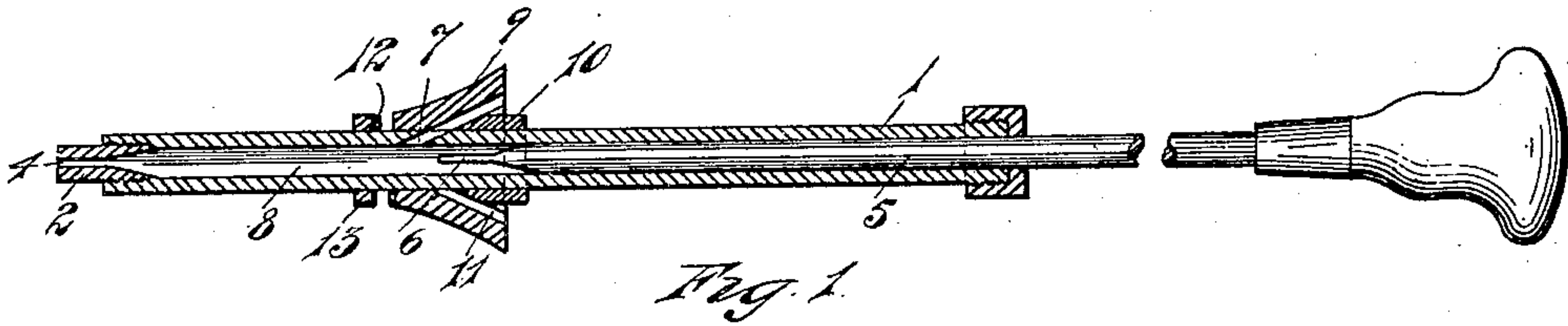


No. 875,658.

PATENTED DEC. 31, 1907.

S. F. DUTTON.
NAIL DRIVING TOOL.
APPLICATION FILED DEC. 15, 1906.



WITNESSES

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NAIL-DRIVING TOOL.

No. 875,658.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed December 15, 1906. Serial No. 348,067.

To all whom it may concern:

Be it known that I, SAMUEL F. DUTTON, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Nail-Driving Tools, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to nail driving tools; it has for its object an improved hand tool adapted and intended to be used for the purpose of driving nails into the heel of a shoe; especially for the purpose of driving nails to repair a shoe, from which the heel has become loosened.

The tool which forms the subject of this invention is one that is mainly intended for repair work.

The tool comprises a magazine, a nail conduit having a contracted nozzle through which there is a guide passage and a plunger with a body part that fills the conduit and a contracted hammer terminal that corresponds in size to the nail guide through the nozzle.

In the drawings:—Figure 1, shows a longitudinal section of the tool and the plunger is in elevation. Fig. 2, is a plan view of the nail magazine. Fig. 3, is a perspective of the nail magazine.

The tool consists of a tubular member 1, which terminates at the delivery end with a nozzle 2, through which there is an opening 4 for the passage of a single nail. The bore of the tube 1, is large enough to receive a strong driving plunger 5, sufficiently rigid to withstand the ordinary forcing strain necessary to drive it into the guide; the stem of the plunger terminates at its driving end with a hammer point 6 that can engage closely in and fill the opening 4 through the nozzle. The chamber of the main part of the tube contracts to the opening through the nozzle and the walls of the nozzle within the chamber are properly inclined to produce a contracting channel that guides without obstructing the nail in passing from the larger part of the chamber to the smaller or nozzle part.

A feed passage 7, for the introduction of

nails into the chamber 8 is cut through the walls of the tube 1. The axis of the feed passage is inclined to the long axis of the chamber 8. Surrounding the guide 1, at the feed hole is a somewhat funnel shaped magazine for the reception of a quantity of nails. The walls of the shell 9 of the magazine are grooved with each groove of a depth to receive a single nail. Within the bell mouth opening of the shell part 9 of the magazine and on the guide 1 is a collar 10 with inclined surface that projects into the mouth of the magazine; between the shell and the collar are a number of tubular passages, each of which is formed by a groove 11, and that part of the collar 10 which is opposite the groove. The magazine is rotatable on the tube and is held up against the collar by a spring 12 which engages between the bottom of the magazine 9 and a collar 13, on the tube 1. The bottom of the rotating part of the magazine is provided with notches after the fashion of a crown-ratchet, in which engages the end of a spring 12, that is secured from rotation by a rivet or pin 14, which holds it to the collar 13; the spring aids the operator in holding the magazine in proper position to bring a nail containing groove in the shell into register with the passage through the wall of the tube into the guiding chamber.

What I claim is:—

In a nailing tool, in combination with a tubular guide having its lower end contracted to form a delivery passage, a driving plunger adapted to be reciprocated therein, its lower end being complementary in size and contour to the delivery end of the guide piece, a fixed collar engaging about the guide member immediately above a downwardly inclined aperture in the walls thereof, and a magazine member rotatably mounted upon the tubular guide and adapted to cooperate with said collar and the adjacent aperture in the delivery of nails into the interior chamber thereof one at a time, substantially as described.

In testimony whereof, I, sign this specification in the presence of two witnesses.

SAMUEL F. DUTTON.

Witnesses:

MAY E. KOTT,
CHARLES F. BURTON.