

No. 622,309.

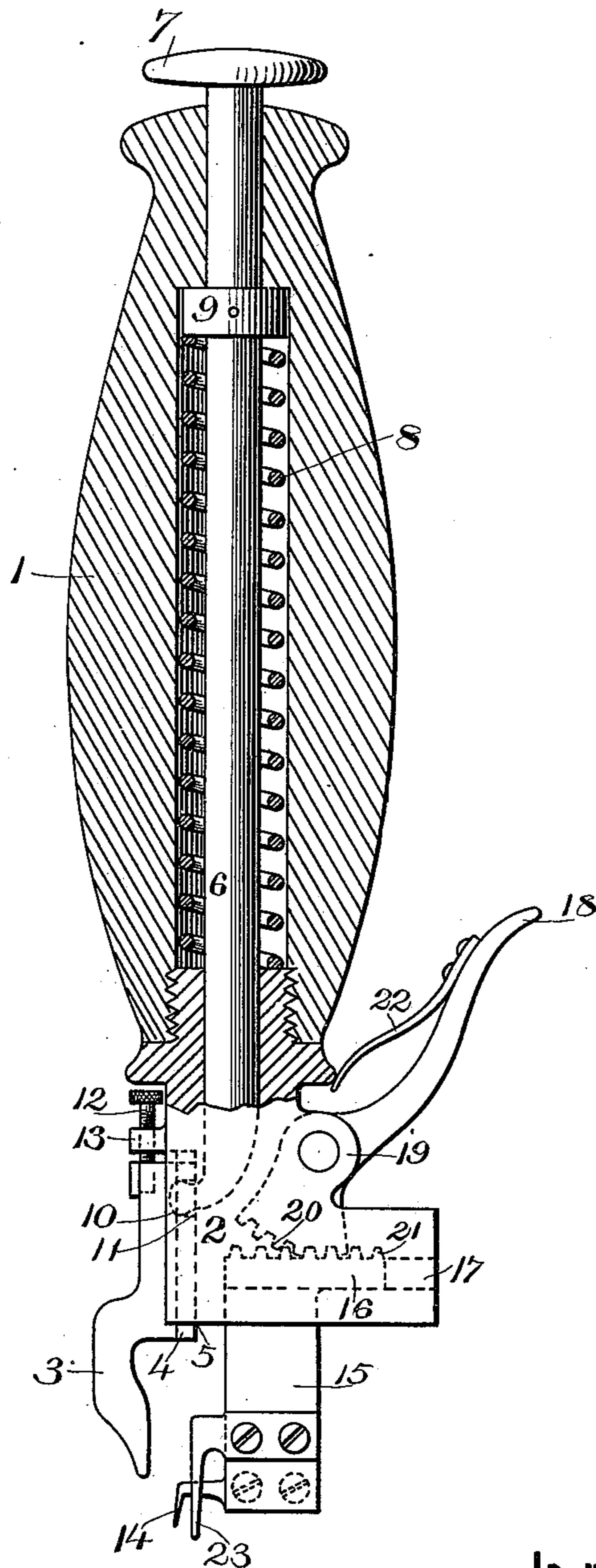
Patented Apr. 4, 1899.

E. E. WINKLEY & F. L. ALLEY.

HAND CHANNELING TOOL.

(Application filed Oct. 7, 1896. Renewed Dec. 16, 1897.)

(No Model.)



WITNESSES

A. E. H. Co.

A. G. Clifford.

INVENTORS

Erastus E. Winkley

Frederick L. Alley.

By their attorneys

Phillips & Anderson

UNITED STATES PATENT OFFICE.

ERASTUS E. WINKLEY AND FREDERICK L. ALLEY, OF LYNN,
MASSACHUSETTS.

HAND CHANNELING-TOOL.

SPECIFICATION forming part of Letters Patent No. 622,309, dated April 4, 1899.

Application filed October 7, 1896. Renewed December 16, 1897. Serial No. 662,215. (No model.)

To all whom it may concern:

Be it known that we, ERASTUS E. WINKLEY and FREDERICK L. ALLEY, citizens of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Hand Channeling-Tools; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to channeling-tools, and more particularly to hand channeling-tools; and it has for its object to provide certain improvements in the gaging or guiding devices and the channeling-knife and its carrier; and it consists of the devices and combination of devices which will be hereinafter described and claimed.

The invention is illustrated in the accompanying drawing, which shows a side view of the device, the upper portion being in section, and in which similar numerals refer to similar parts.

The device comprises a suitable handle or stock 1, upon the lower end of which is a head 2. Upon the front end of the head 2 is a guide or gage 3, which is arranged to have a vertical movement and which is preferably provided with a flanged base 4, which fits into and is freely movable in a recess 5, (shown in dotted lines,) formed in the front end of head 2. The guide or gage is arranged to be freely movable by the operator during the operation of channeling in order to accurately position the channel cut in the shoe-sole by the channeling-knife, and it may be conveniently actuated by a push-rod 6, which at its lower end engages the guide or gage and which extends up through the handle or stock 1 and has at its upper end a bead or push-piece 7, which is adapted to be engaged by the thumb of the operator to actuate the same. Surrounding the rod 6 is a spring 8, which engages a collar 9 upon said rod and normally holds the rod and gage in their highest position. The connection between the rod 6 and the gage 3 is conveniently formed by a toe-piece 10 upon the lower end of said rod, which engages a recess 11 in the rear face of base 4 of said gage. (See dotted lines.) To limit

the downward or outward movement of said gage, a suitable stop (shown as a headed screw 12) is fitted in the upper end thereof and is movable in an ear or lug 13, projected from the head. By turning the screw-stop 12 the outward or downward movement of the gage can be accurately adjusted.

The channeling-knife 14 is mounted upon the lower end of a knife-carrier 15, the upper end 16 of which is of a dovetailed or flanged construction and freely movable in a correspondingly-shaped guideway 17. (See dotted lines.) The knife-carrier 15 is held normally toward the gage or guide 3 by a spring, and means are provided by which the operator may move said knife-carrier away from the gage when inserting the edge of the sole between the same. The means for actuating the knife-carrier 15 may conveniently be that which is shown in the drawing, wherein 18 represents a lever pivoted between lugs or ears 19 upon the head 2 and which at its lower end has a segment-gear 20, which meshes with a rack 21 upon the upper end 16, the knife-carrier 15, (see dotted lines,) the free end of the lever 18 being held normally projected by a spring 22, attached thereto and bearing upon a fixed portion of the device, thus holding the knife by spring-pressure against the sole during the cutting operation.

Upon the carrier 15, adjacent to the knife, there is preferably arranged a guard or gage 23, which extends across the shank of said knife, as shown.

The operation of the device is as follows: The lever 18 is depressed, thus moving the knife-carrier 15 and knife 14 away from the gage 3, and the tool brought into operative position with the work, the edge of the sole being placed between the knife 14 and the gage 3, the end of the gage being inserted in the crease between the upper and welt, and the lever 18 is released, causing the spring 22 to bring the knife in contact with the sole. The tool is thus moved around the sole to cut the channel in the face thereof, and if it is desired to vary the position of said channel the operator pushes down the rod 6, which depresses the gage 3 and causes the knife to cut closer to the edge of the sole, as before explained.

Having described our invention and its mode of operation, we claim and desire to protect by Letters Patent of the United States—

1. In a channeling-tool, the combination
5 with a stock or handle, of a work-gage mounted thereon, a channeling-knife carrier carrying a channeling-knife, movable toward and from said gage, a spring-controlled lever pivoted to the stock and engaging the knife-carrier
10 for moving the knife-carrier toward and from the gage, substantially as described.

2. In a channeling-tool, the combination with a stock or handle, having a grooved head, of a gage arranged to slide in said groove, and
15 a sliding rod projecting from the end of the stock or handle to actuate said gage, substantially as described.

3. In a channeling-tool, the combination

with a stock or handle, having a head at its lower end, provided with grooves or ways disposed at substantially a right angle to each other, of a gage movably supported in one groove and a channeling-knife carrier movably supported in the other groove, a sliding rod projecting from the end of the stock or handle to actuate the gage and a pivoted lever to actuate the knife-carrier, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

ERASTUS E. WINKLEY.
FREDERICK L. ALLEY.

Witnesses:

T. HART ANDERSON,
BENJAMIN PHILLIPS.