

No. 713,021.

Patented Nov. 4, 1902.

L. S. STARRETT.
PRICK PUNCH AND SPACING TOOL.

(Application filed June 30, 1902.)

(No Model.)

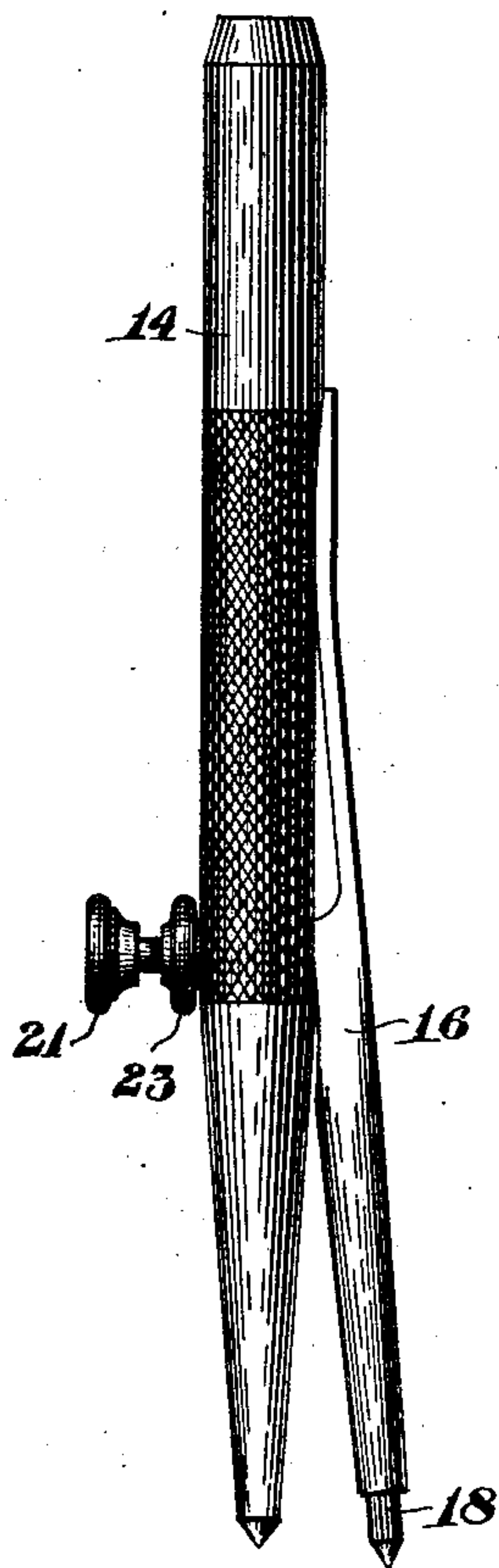


Fig. 1.

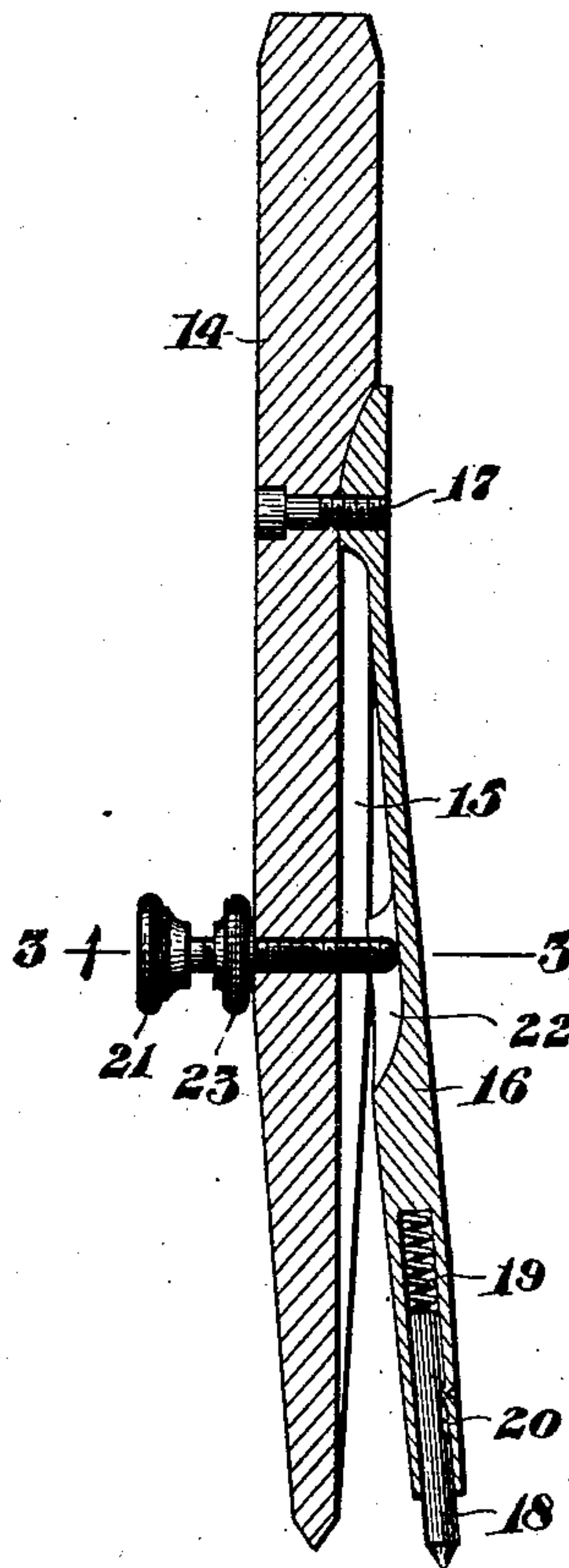


Fig. 2.

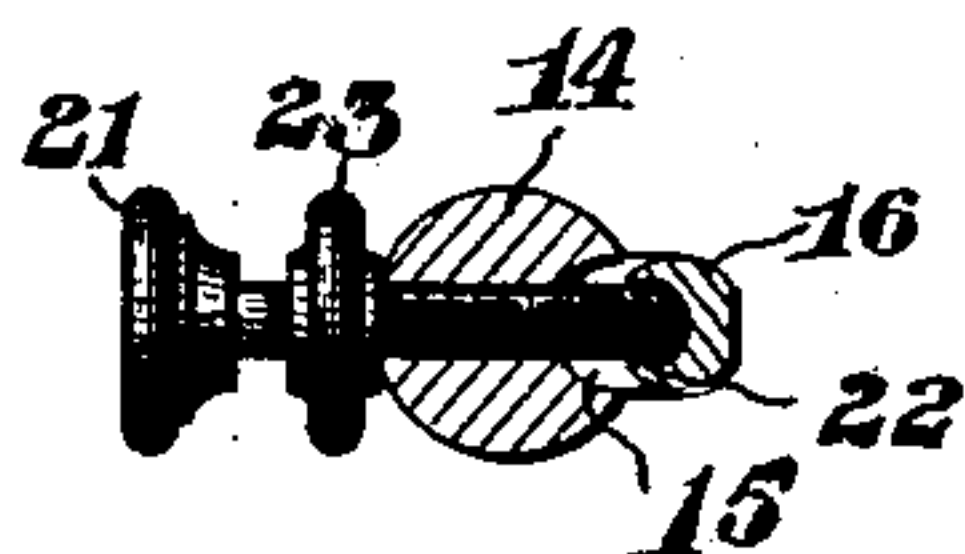


Fig. 3.

Witnesses:
Charles F. Logan.
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UNITED STATES PATENT OFFICE.

LAROY S. STARRETT, OF ATHOL, MASSACHUSETTS, ASSIGNOR TO THE L. S. STARRETT COMPANY, A CORPORATION OF MASSACHUSETTS.

PRICK-PUNCH AND SPACING TOOL.

SPECIFICATION forming part of Letters Patent No. 713,021, dated November 4, 1902.

Application filed June 30, 1902. Serial No. 113,700. (No model.)

To all whom it may concern:

Be it known that I, LAROY S. STARRETT, of Athol, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Prick-Punch and Spacing Tools, of which the following is a specification.

My improved tool is designed to facilitate laying out work in wood or metals with a prick-punch where a succession of points are to be indented at defined distances along straight or curved lines, the spacing being variable at the will of the operator.

My invention is embodied in a tool-steel prick-punch properly pointed and tempered, preferably milled along its middle portion and recessed longitudinally on one side nearly to its point, in combination with an adjustable spacing-arm secured at its upper end to the punch-body, carrying in a socket at its lower end a reciprocating spring-actuated guide-pin normally projecting somewhat beyond the punch-point, and with an adjusting-screw threaded through the punch-body, entering a recess or bearing on a plane surface on the inner face of the arm and provided with a check-nut to lock the screw and set the spacing at the distance desired.

In the drawings, Figure 1 is a side elevation of my improved tool; Fig. 2, a vertical section through the punch and arm, and Fig. 3 a transverse section thereof on line 3 3 of Fig. 2.

The punch 14 is of a generally-cylindrical form, tapered in its lower portion and pointed, and is shown roughened intermediately for more convenient holding. An elongated recess 15 is formed in one side to receive the spacing-arm 16, which is shown as secured at its upper end to the punch by a screw 17.

The arm 16 has at its lower end an elongated socket, formed to receive a reciprocating guide-pin 18, and a coiled spring 19, against which the inner end of the guide-pin bears, whereby it may recede somewhat into the arm

16 when a blow is struck upon the head of the punch 14. A slight longitudinal recess is made along one side of the pin, and a depression 20 in the side wall enters such recess to prevent the pin from dropping out or from being pressed inwardly too far. (See Fig. 2.) The arm is adjusted to the desired distance from the punch by the thumb-screw 21 engaging threads in the body of the punch and at tip entering the recess 22 in the adjustable arm, which is sufficiently elastic to yield and keep pressed against the screw. A check-nut 23 may be employed to lock the screw in the desired position.

With this tool when the punch is struck to indent a metal or other plate the guide-pin recedes into its socket without injury, permitting the punch to be held straight over its work, insuring accurate results.

I claim as my invention—

1. The combination of punch 14, suitably pointed and tempered, with the adjustable arm 16 connected at its upper end to the punch, and the spring-actuated guide-pin projecting from its lower end, substantially as set forth.

2. The punch 14 and the adjusting-screw 21 threaded through it, in combination with the adjustable arm 16 having a terminal socket, and the spring 19 and reciprocating guide-pin held therein, substantially as set forth.

3. The punch 14 formed with a lateral recess 15, the adjustable arm 16 having a terminal socket, the inclosed spring and the guide-pin projecting therefrom, in combination with means for adjusting and fixing the distance between the punch-point and guide-pin point, substantially as set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

LAROY S. STARRETT.

Witnesses:

ROBERT J. SIMPSON,
FRANK E. WING.