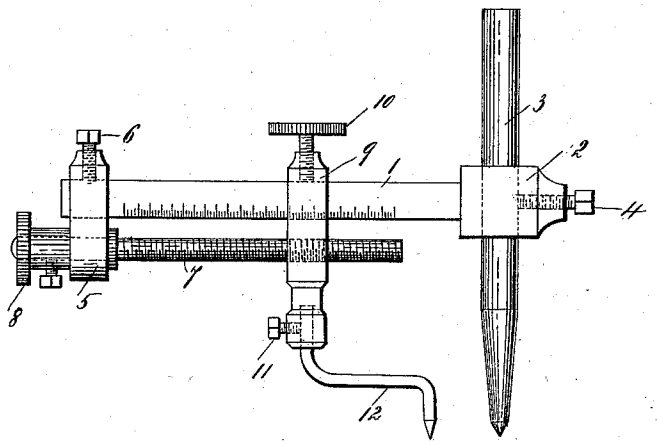
No. 611,625. Patented Oct. 4, 1898.

J. E. GODDARD.

GAGING IMPLEMENT.

(Application filed Jan. 6, 1898.)

(No Model.)



WITNESS

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JOHN E. GODDARD, OF SPENCER, MASSACHUSETTS.

GAGING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 611,625, dated October 4, 1898.

Application filed January 6, 1898. Serial No. 665,806. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. GODDARD, a citizen of the United States, residing at Spencer, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Gaging Implements, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The subject of this invention is a gaging implement that may be termed a "center-punch," and which is especially adapted for use by machinists in laying out work for drilling—that is, to mark the center of a hole or holes to be drilled in a plate, for instance.

The invention consists in the features of construction and combination of parts hereinafter fully described and specifically claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by numerals of reference and in which I have shown a side elevation of an implement constructed in accordance with this invention.

The implement comprises a graduated bar 1, having a transverse coupling 2 at one end to receive the punch 3, that is held in position by a set-screw 4. A coupling 5 is fastened to the other end of the bar by a set-screw 6 and carries a swiveled screw-rod 7 counter to the bar 1 and having a thumb-screw 8 for turning it. A sliding block 9 has an opening through which the bar 1 passes and a screw-threaded opening receiving the screw-rod 7. A set-screw 10 serves to hold the block rigidly upon the bar, it being noted that the bar can be round, with a flat side, against which the set-screw 10 impinges, so that the block is held in a rigid manner. The block 9 is provided with an end socket and set-screw 11, by means of which the spring gage-finger 12 is held and adjusted, said finger 12 being bent, as shown, to afford the necessary spring action when the punch is operated, whereby the spring centering point or bearing formed by said finger will yield laterally when the punch is struck.

It is readily understood that the points of the punch and spring-finger can be adjusted by loosening the set-screw 10 and moving the block 9 by means of the adjusting-rod 7. When the desired adjustment is reached, the parts can be fastened by set-screws 10. In use the point of the spring-finger 12 is placed in the indentation or point from which it is desired to measure, and by a blow upon the punch 3 the point desired is marked.

It is obvious that the implement can be used in any manner convenient, and further that by swinging the spring-finger away from the punch 3 the range of adjustment can be modified.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A measuring implement, comprising a bar having a transverse coupling and set-screw at one end, a transverse punch carried by said coupling, a coupling and set-screw at the other end of said bar carrying a rotatable screw-rod, a sliding block upon said bar having a set-screw and an opening to receive the screw-rod, a socket and set-screw at the end of said block, and a spring-finger secured within said socket, and forming the centering point or bearing, said spring-finger being transversely mounted with relation to the bar and in parallel relation to the punch, whereby when the latter is struck the spring centering or bearing finger will yield laterally, substantially as set forth.

2. A device of the class herein described, comprising a main scale-bar, a transverse coupling at one end thereof, a punch mounted transversely in said coupling, a block or head on the opposite end of said bar, a screw-threaded rod passing therethrough parallel with the scale-bar and adapted to turn therein, and a slide mounted on the main scale-bar provided with a screw-threaded opening through which said screw-threaded rod passes, said slide being also provided with a curved spring-finger which is flexible at right angles to a line connecting its point with that of the punch, substantially as shown and described.

3. A device of the class herein described, comprising a main scale-bar, a punch supported at right angles thereto at one end thereof, a coupling on the opposite end of said main scale-bar, a tubular head mounted therein and adapted to turn therein, a screw-threaded

rod connected with said head and extending parallel with the scale-bar, and a slide mounted on the scale-bar and provided with a screw-threaded opening through which said screw-threaded rod passes, substantially as shown and described.

4. A device of the class herein described, comprising a main scale-bar, a punch supported at right angles thereto at one end thereof, a coupling on the opposite end of said main scale-bar, a tubular head mounted therein and adapted to turn therein, a screw-threaded rod connected with said head and extending parallel with the scale-bar, and a slide mounted on the scale-bar and provided with a screw-threaded opening through which said screw-threaded rod passes, said slide being also provided with a curved spring-finger, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 1st day of January, 1898.

JOHN E. GODDARD.

Witnesses:
GEO. H. RAMER,
JOHN KANE.