

(No Model.)

J. W. WALTER.
SHADING AND SPACING TOOL.

No. 594,186.

Patented Nov. 23, 1897.

Fig. 1.

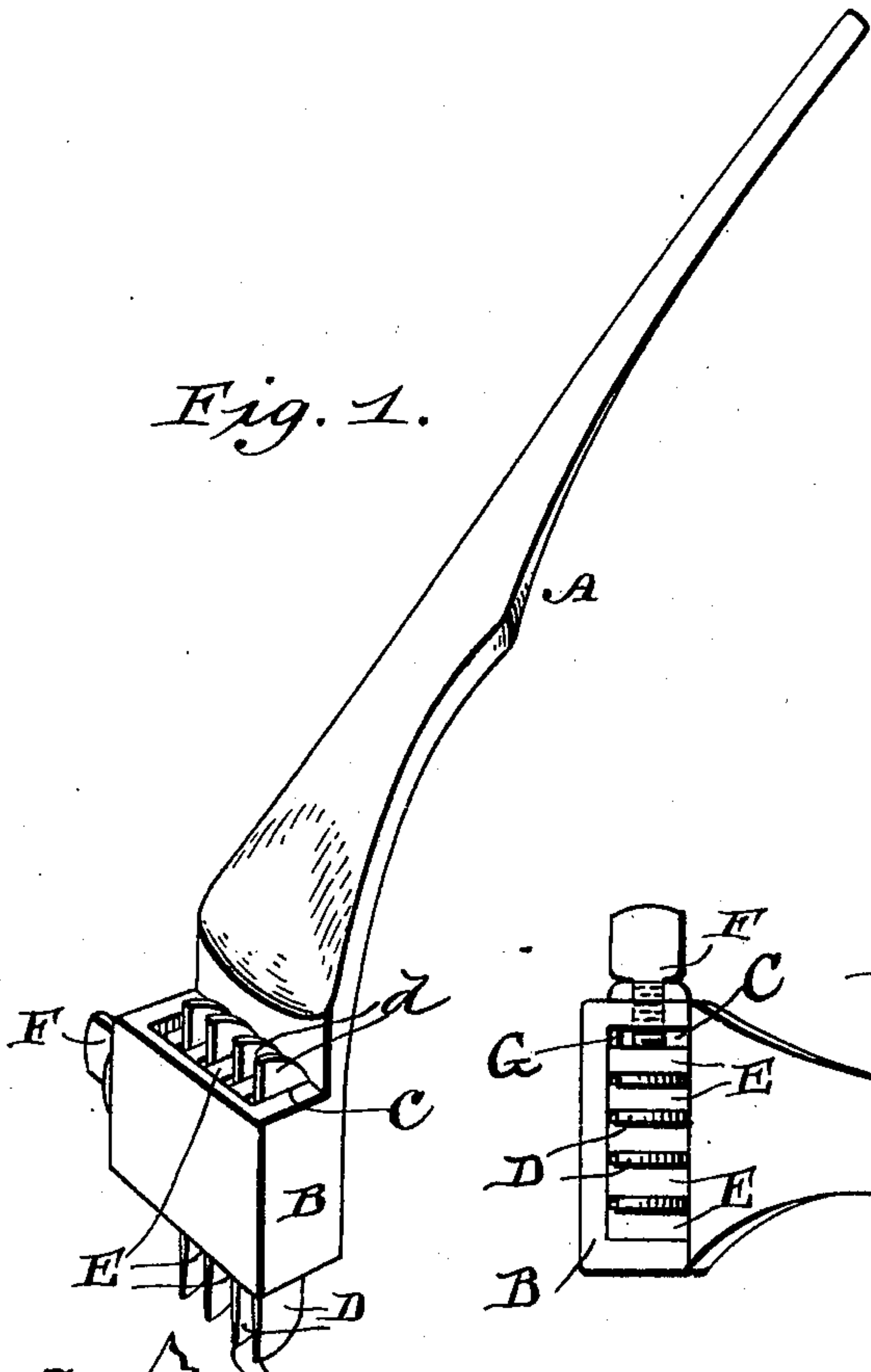


Fig. 2.

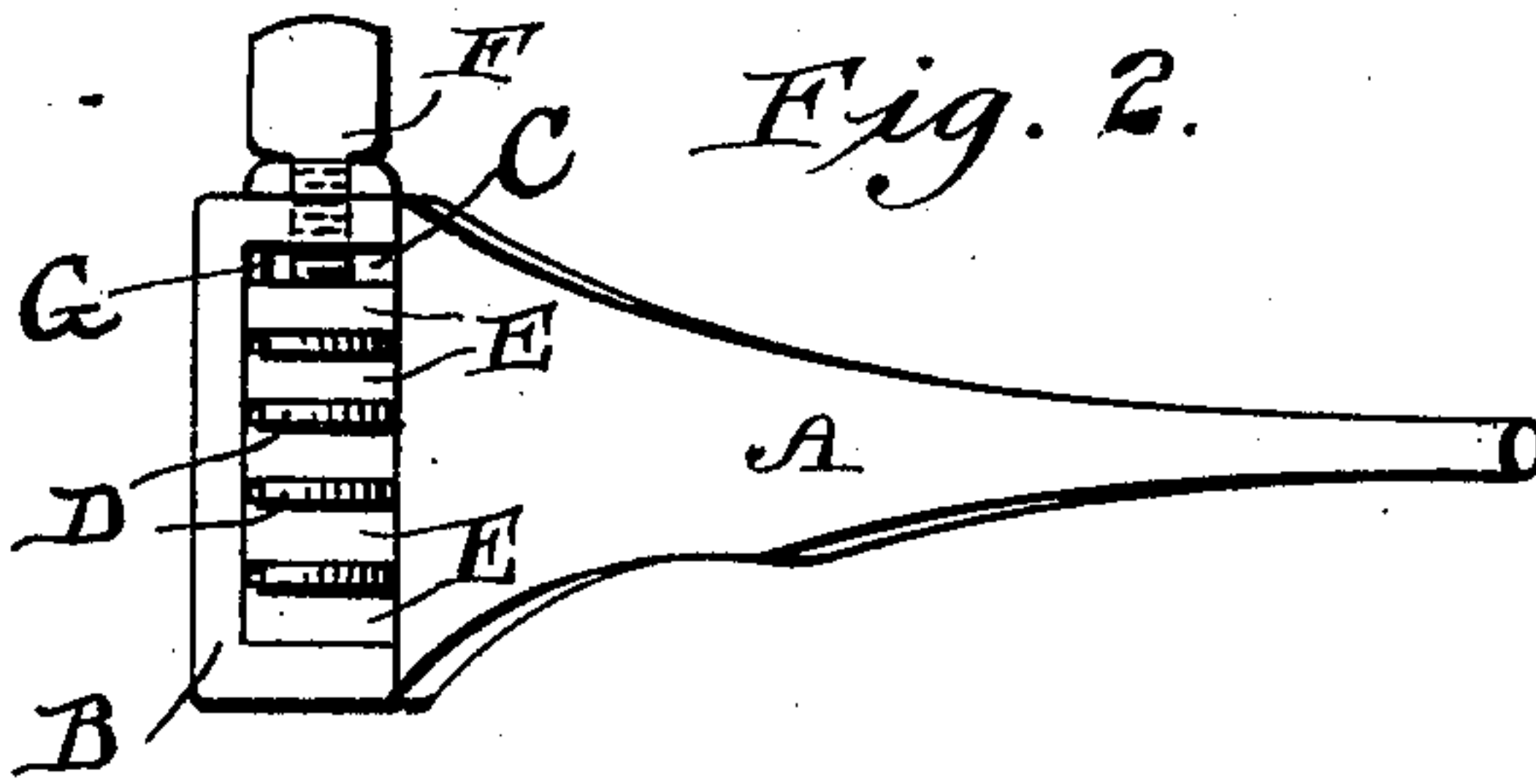


Fig. 3.

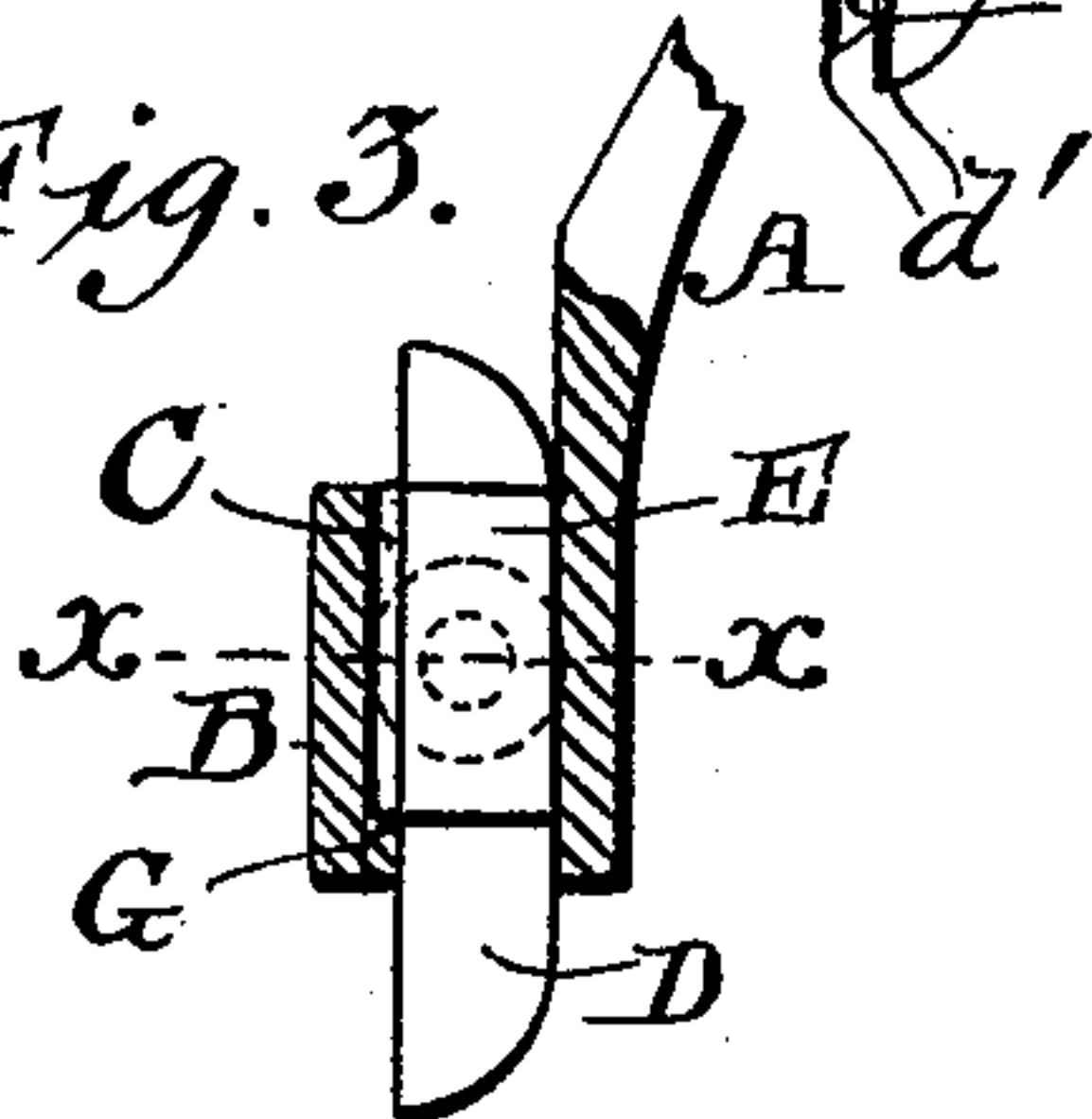
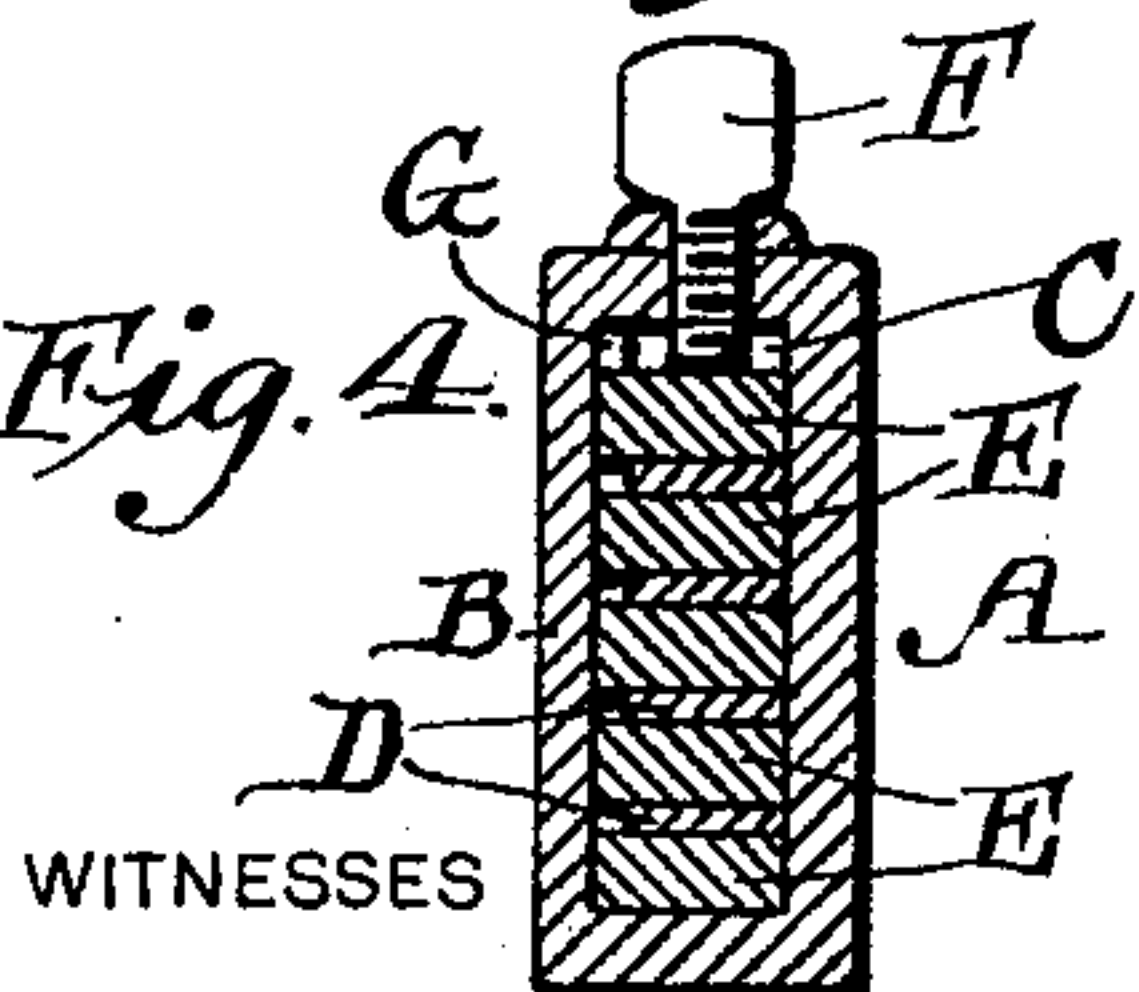


Fig. 4.



WITNESSES

Everance
By W. H. Fenwick

Fig. 5.

English

German

INVENTOR

John W. Walter
By his Atty
Mar. Fenwick

UNITED STATES PATENT OFFICE.

JOHN W. WALTER, OF OSHKOSH, WISCONSIN, ASSIGNOR OF ONE-HALF TO
AUGUST J. BEDUHN, OF SAME PLACE.

SHADING AND SPACING TOOL.

SPECIFICATION forming part of Letters Patent No. 594,186, dated November 23, 1897.

Application filed March 5, 1897. Serial No. 626,149. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. WALTER, a citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Shading and Spacing Tools; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in shading and spacing tools, the objects of my invention being, first, to provide a tool for the proper spacing of lines for ruling paper or a slate for penmanship purposes and the like; second, to provide a means of shading one or more lines heavier than the others; third, to provide a means of adjusting the tool to any required space and to any required relative shading.

In the accompanying drawings, Figure 1 is a perspective view, and Fig. 2 is a top view, of my invention. Fig. 3 is a vertical section, and Fig. 4 is a cross-section, on the line $x x$. Fig. 5 is an illustration of the shaded and spaced lines.

Similar letters refer to similar parts in each view.

My invention is adapted to the use of leads for marking on paper, slates for marking on slates, or steel knives for scratching permanently and properly spaced and shaded lines upon a slate or similar article.

A is the handle, and B the head, provided with a socket C, in which the leads or blades D D D, &c., are placed, having spaces E E E between them to properly space them the requisite distance apart. The blades or leads D D D, &c., and the spaces E E E are held in position within the socket C by the thumb-screw F. The blades or leads D D D, &c., are thicker at one end $d d d$, &c., than at the opposite end $d' d' d'$, &c., so that by reversal of the ends a heavier or shaded line may be had.

In using the tool the spaces E E E may be of varied thicknesses to adjust it to the requisite spaces desired in the use of the tool, and any required number of blades may be used.

A shoulder G is provided to retain the spaces or blocks E E E, but which does not retain the blades or leads but provides an upper uniform bearing against which the blades are pressed before tightening the thumb-screw F in the adjustment of the instrument, thus giving a uniform pressure to each blade against the surface of the article desired to be ruled.

My tool is used in connection with an ordinary rule or straight-edge and is passed along the edge of the rule, which operates as a guide for the instrument.

My instrument is of especial use in schools to rule and properly shade and space a series of lines for both English and German penmanship, and may be used for other similar purposes.

An important feature of my invention is the capability of shading one or more lines heavier relative to the other lines, and it is also adapted to different proportionate spacings. Any number of blades or leads D D D, &c., and any size and thickness of spaces E E E may be used.

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

1. A spacing-tool comprising a handle having a socket at its lower end, two or more marking-blades adapted to be mounted in said socket, spacing-blocks interposed between said blades and a clamping-screw for holding the said blocks and blades in the socket, substantially as described.

2. A spacing-tool consisting of a handle having a socket at its lower end, said socket being open at its ends, marking-blades adapted to be inserted in said socket, spacing-blocks for holding the blades the proper distance apart and means for holding said blades and blocks in the said socket, substantially as described.

3. A spacing-tool comprising a handle having a socket at its lower end, marking-blades adapted to be inserted in said socket, spacing-blocks for holding the said blades the proper distance apart, a shoulder in said socket for holding the blocks within the same, a set-screw for clamping the said blades and blocks in the socket, substantially as described.

4. In a spacing and shading tool, the combination of a suitable handle having a socket at its lower end, reversible marking-blades each having a narrow marking edge at one
5 end and a wide marking edge at the other end whereby upon reversing said blades lines of different widths may be produced, spacing-blocks interposed between said blades and a clamping-screw for holding the said blades

and blocks in the socket, substantially as described.

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

JOHN W. WALTER.

Witnesses:

AUG. J. BEDUHN,
F. J. MCKENNEY.