

(No Model.)

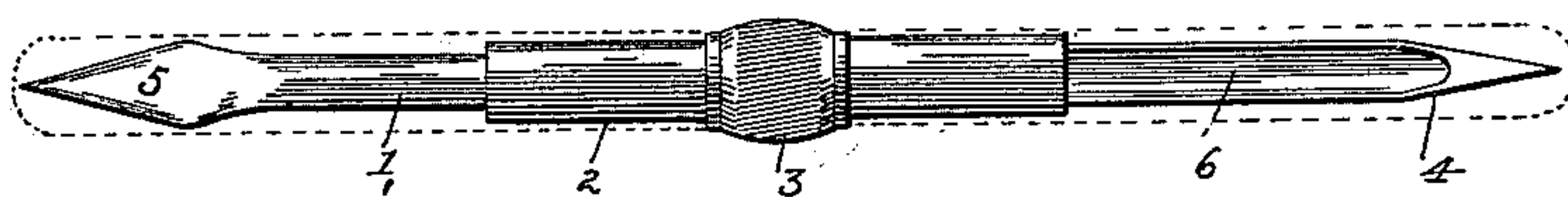
G. A. MASON.  
ENGRAVER'S TOOL.

No. 408,498.

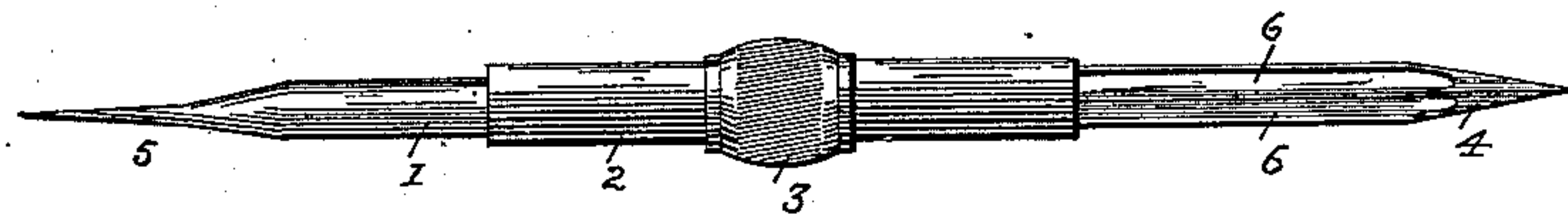
Patented Aug. 6, 1889.



*Fig. 1.*



*Fig. 2.*



WITNESSES

*Wm J Robertson*  
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INVENTOR

*George A. Mason*  
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# UNITED STATES PATENT OFFICE.

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TO JOHN SELLERS & SONS, OF NEW YORK, N. Y.

## ENGRAVER'S TOOL.

SPECIFICATION forming part of Letters Patent No. 408,498, dated August 6, 1889.

Application filed May 17, 1889. Serial No. 311,129. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE A. MASON, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Engravers' 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 and figures of reference marked thereon, which form a part of this specification.

This invention relates to engravers' tools, and embodies an implement in which a scraper and burnisher are provided on a single handle or stock and the operating-edges are preserved in good condition by a protecting cap or caps.

In the accompanying drawings, which illustrate my invention, Figure 1 shows in side elevation an implement embodying my invention, showing the caps detached, their position when applied being indicated in dotted lines. Fig. 2 shows an edge view of the implement with the caps removed.

A steel rod or bar 1 is provided on one end with an arrow-shaped burnisher 5, tapering to a sharp point and being substantially pyramidal in shape, as will be understood from an inspection of Figs. 1 and 2. The other end of the rod is provided with three longitudinal grooves 6 6, producing three edges at their lines of intersection. The shape in cross-section produced by the grooves is that of a four-pointed star, which permits of ready grinding or sharpening of the scraper and the production of a very fine and even scraping edge on the bounding lines of the surfaces 4 at the tip. A sleeve of hard rubber or other suitable material is forced on the steel bar, or is otherwise secured thereto, and occupies, when in place, a central position on the bar. The central portion 3 of this sleeve is milled or otherwise suitably roughened to make a gripping-surface for the fingers, and the sides 2 are re-

duced to permit caps 7 8 being crowded on the ends to occupy positions as shown in Fig. 1. Two caps may be used, as shown, or one may be dispensed with, the other being fitted to cover the burnisher when scraping, and being placed over the scraper when the tool is thrown on the bench or table.

The tool described is designed for use in steel-engraving, the scraper being used to scrape out a false line and the burnisher to polish the steel surface after the line has been removed from the plate. Much difficulty is experienced among engravers in preserving a sharp edge on the tools herein mentioned, and especially on the scraper. This is principally due to a roughening of the edges by abrasion in being knocked against other tools on the table where the scraper is thrown when not in use. A slight roughening of its edge renders resharpening necessary before it is fit for further use. Frequent regrinding is thus required—an operation which takes considerable time and requires some skill, as the edges must be both smooth and sharp. The caps prevent damage to the edges, except such as is due to wear. The point of the burnishing-tip is also dulled by contact with other tools.

The scraper and burnisher are two tools which are used in consecutive order by an engraver, and are very often employed. The advantages of combining them in a single implement is therefore apparent. No time is lost by the operator in searching for another tool or in looking for the line being operated upon after such search. When the steel surface is ready for the burnisher, he has but to reverse the implement in his hand.

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

1. An engraver's tool having a burnishing-edge and a scraping-edge, both of metal, on opposite ends of the same handle or stock and provided with a cap or hood to protect either edge when not in use, said cap fitting on a suitable co-operating shoulder on the tool.

2. An engraver's tool consisting of a single  
piece of steel having one end shaped into a  
scraper and the other end into a burnisher,  
and a protecting cap or caps to cover the  
5 ends, said cap or caps fitting on co-operating  
shoulders on the tool, as and for the purpose  
set forth.

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

GEORGE A. MASON.

Witnesses:

ROBT. H. READ,  
H. B. ZEVELY.