

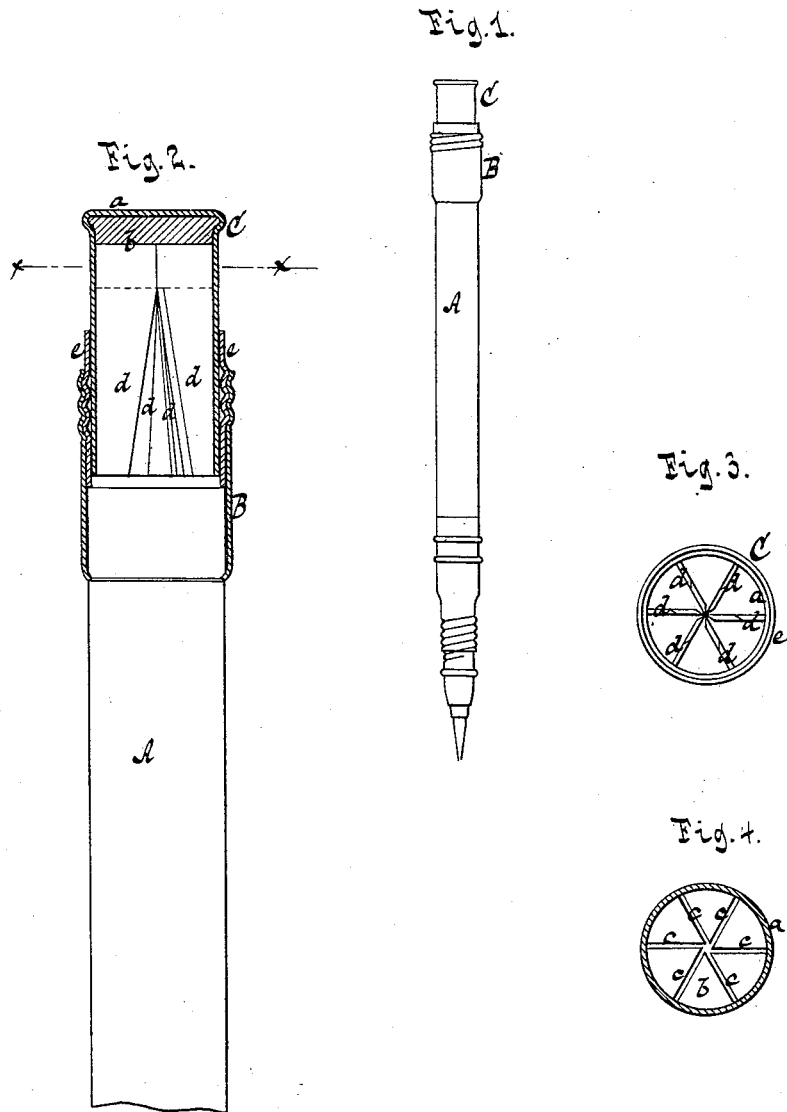
(No Model.)

P. SCHRAG.

COMBINED PENCIL SHARPENER AND HOLDER.

No. 262,836.

Patented Aug. 15, 1882.



WITNESSES:

*Otto Wülfel and  
William Miller*

INVENTOR

*Philip Schrag*

BY *Van Santvoord & Hauff*

ATTORNEYS

# UNITED STATES PATENT OFFICE.

PHILIP SCHRAG, OF NEW YORK, ASSIGNOR TO EBERHARD FABER, OF  
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## COMBINED PENCIL SHARPENER AND HOLDER.

SPECIFICATION forming part of Letters Patent No. 262,836, dated August 15, 1882.

Application filed May 24, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, PHILIP SCHRAG, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Pencil Sharpeners and Pencil-Holders Combined, of which the following is a specification.

This invention relates to a pencil-sharpener which can be readily attached to the butt-end of a pencil-holder and removed therefrom when it is to be used for sharpening the point of the pencil projecting from the tip of the pencil-holder, the particular construction of my pencil-sharpener being explained in the following specification.

In the accompanying drawings, Figure 1 represents a side elevation. Fig. 2 is a longitudinal central section on an enlarged scale. Fig. 3 is an end view of the pencil-sharpener detached. Fig. 4 is a transverse section in the plane  $xx$ , Fig. 2.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates a pencil-holder provided with a tip which consists of lead-retaining jaws and a suitable device for closing these jaws. On the butt-end of said holder is secured a screw-socket, B, which is by preference made of sheet metal, and into this screw-socket is fitted the pencil-sharpener C. This pencil-sharpener is constructed of a sheet-metal cap,  $a$ , in the closed end of which is firmly secured a head,  $b$ , provided with a series of radiating grooves,  $c$ , (see Fig. 4,) the depth of which is indicated in Fig. 2 by the distance between the dotted line, which indicates the face of the head  $b$ , and the full line, which indicates the bottom of the grooves. These grooves are intended to receive the inner ends of the blades  $d$ , which are driven down into the grooves, so as to be firmly

retained in position. The cutting-edges of these blades are beveled, Fig. 2, so that they form a tapering socket for the purpose of pointing or sharpening the end of the lead which projects from the tip of the pencil-holder. On the outside of the cap  $a$  is firmly secured a tube,  $e$ , provided with a screw-thread which corresponds to the thread in the screw-socket B at the butt-end of the pencil-holder.

When the sharpener is not to be used it is screwed into the socket B of the holder, so as to impart to the butt-end thereof the proper finish, and when the point of the lead is to be sharpened the pencil-sharpener is unscrewed and applied to the head.

I am well aware that pencil-sharpeners provided with radiating cutting-blades have heretofore been fastened in grooves in the sides of the shell or cap intended for their reception.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, substantially as hereinbefore described, of the pencil-holder, the screw-socket secured to or formed at the butt-end of said holder, the cap  $a$ , containing the cutting-blades  $d$ , and the tube  $e$ , fastened to the cap and provided with a screw-thread corresponding to the thread in the screw-socket.

2. The combination, substantially as hereinbefore set forth, of the cap  $a$ , the head  $b$ , secured in said cap and having radiating grooves, and the cutting-blades fitted into and retained by said grooves.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

PHILIP SCHRAG. [L. s.]

Witnesses:

W. HAUFF,  
E. F. KASTENHUBER.