

F. A. COOMBS.

COMBINED PENCIL PROTECTOR AND KNIFE.

No. 179,273.

Patented June 27, 1876.

Fig. 1

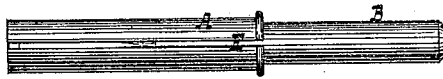


Fig. 2.



Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

FRANK A. COOMBS, OF BROOKLYN, NEW YORK, ASSIGNOR TO EBERHARD FABER, OF NEW YORK CITY.

IMPROVEMENT IN COMBINED PENCIL-PROTECTORS AND KNIVES.

Specification forming part of Letters Patent No. **179,273**, dated June 27, 1876; application filed May 24, 1876.

To all whom it may concern:

Be it known that I, FRANK A. COOMBS, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Combined Pencil-Protector and Knife, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 is an outside view of my improvement. Fig. 2 is a longitudinal section, the knife being open. Fig. 3 shows the plug, to which the knife is pivoted, detached.

Similar letters indicate corresponding parts.

This invention consists in a combined pencil-protector and knife, in which the knife-blade is arranged to open and shut in or through the slot of the pencil-protector when the protector consists of a split tube, or in or through a slot made therein when the protector is not split.

The knife-blade is mounted in the end of a plug, whose diameter is such as will allow it to be inserted into the protector, where it is soldered or otherwise fastened, the arrangement being such that the knife is in line with the slot in the pencil-protector, so that it passes through the slot when it is opened and shut. The plug is grooved on the side toward which the knife-blade moves, so as to receive the heel end of the knife-edge, the forward part of the knife-blade projecting beyond the end of the plug, as shown in the drawing, it being only necessary that the plug be of such length as to furnish a head to which the blade may be pivoted.

In this example, the plug also supports the spring which holds the blade open or shut. The inner end of the plug forms an abutment, which limits the extent to which the pencil is allowed to enter the protector, and my invention embraces the formation on that end of the plug of a cushion, against which the point of the pencil can rest without being crushed or injured by the contact.

The letter A designates a pencil-protector, which, in this example, consists of a split tube. B is the pencil inserted in one end of the pro-

jector. The other end of the protector is filled up with a short grooved plug, C, whose groove D coincides with the slot E of the protector.

The plug C is shown detached in Fig. 3. The groove of the plug extends across its outer end and a little distance down its back, so as to allow room for the heel of the knife-blade and for the flat spring F, whose free end acts against the angles on the heel of the blade in the usual manner, when the blade is being turned on its pivot.

The blade, when closed, extends forward beyond the inner end of the plug, the part of the edge which is near its heel entering the groove D, which is shallow, not extending to the center of the plug, so that the blade will not interfere with the point of the pencil, nor hinder the inner end of the plug from serving as an abutment to the pencil-point.

The plug is secured within the protector by soldering, or by a pin, or in any other convenient manner, the relative positions of the parts being such that the knife-blade coincides with the line of the slot in the protector, and that the back of the blade protrudes sufficiently to allow one to grasp it with the fingers to open it.

Although I have here shown and described the knife-blade as being pivoted in the plug before the latter is inserted in the protector, yet the pivot, as well as the spring, can be secured in or attached to the protector with the same effect without departing from my invention, so long as the knife-blade is combined with a plug in such a manner that the plug forms an attachment or cushion for the pencil-point, and prevents the knife from entering the protector so far as to interfere with the pencil or its point.

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

1. The pencil-protector A, provided at one end with a plug, C, and knife, so combined that the plug forms an abutment or cushion to the point of the pencil, and the knife-blade closes and opens in a slot in the protector, substantially as described.

2. The grooved plug C, combined with a knife-blade, as described, and a slotted pencil-protector, in such a manner that the groove D of the plug limits the descent of the blade in the protector, substantially as described.

In testimony that I claim the foregoing I

have hereunto set my hand and seal this 22d day of May, 1876.

FRANK A. COOMBS. [L. S.]

Witnesses:

J. VAN SANTVOORD,
E. F. KASTENHUBER.