

(No Model.)

P. SCHRAG.
LEAD PENCIL.

No. 362,319.

Patented May 3, 1887.

Fig. 1.

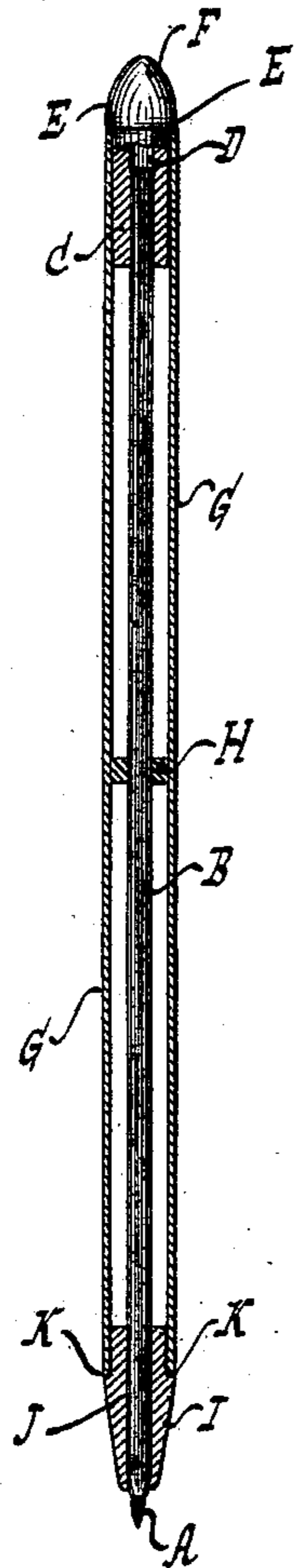
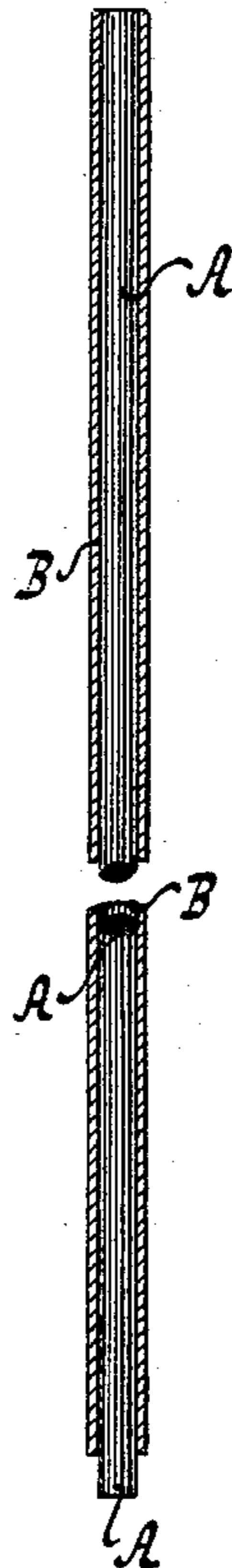


Fig. 2.



WITNESSES:

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PHILIP SCHRAG, OF PORT RICHMOND, NEW YORK, ASSIGNOR TO EBERHARD FABER, OF SAME PLACE.

LEAD-PENCIL.

SPECIFICATION forming part of Letters Patent No. 362,319, dated May 3, 1887.

Application filed December 9, 1886. Serial No. 221,131. (No model.)

To all whom it may concern:

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

This invention relates to lead-pencils; and it consists in several novel features which are fully described hereinafter in this specification, reference being had to the accompanying drawings, in which—

Figure 1 is a central longitudinal section of my improved lead-pencil. Fig. 2 is a central longitudinal section of the sheath or casing which contains and protects the lead.

Similar letters indicate corresponding parts.

In this invention the lead A of the pencil is incased in a sheath or casing, B, of paper or other material, adapted to support and protect the lead against liability of becoming broken in handling or operating it, which has heretofore been accomplished, and is not, therefore, herein broadly claimed.

The point or working end of the lead A protrudes from the sheath B, and as the point of the lead is worn down from use the sheath is cut away from time to time, so as to renew the point. The sheath or casing is conveniently formed around the lead by wrapping a sheet of paper or other suitable material around it, and securing the outer edge of the wrapping by pasting it down. The other end of the sheathed lead is inserted into a plug, C, which is formed of wood, paper, or other suitable material. The plug is perforated at one end to receive the sheathed lead, as indicated by the letter D, and its other end is provided with a shoulder, E, and a head, F. The sheathed or incased lead is cemented or otherwise properly secured in the perforation D of the plug.

The lead having been properly incased, as described, and its upper end secured in the plug, is then ready to be placed in the holder or case G, which consists of a tube of paper or other suitable material that can be cut with a knife or other suitable cutting-instrument, when it is desired to reduce the length of the holder.

The interior of the holder G is provided

with annular guides H, one or more, through which the lead A B passes and by which it is sustained and guided in the holder. In one end of the holder is fitted a tip, I, which is provided with a perforation, J, extending through it from end to end, to receive the working end of the incased lead. The outer end of the tip is tapering in form, and its inner end enters the lower end of the holder as far as the shoulder K.

The pencil, when its parts are put together, as shown in Fig. 1, is ready for use. As its point is worn away a suitable portion of the upper end of the holder G is cut away at the part which sets against the shoulder E of the plug, and the holder thus reduced in length is then moved up against the shoulder E, whereby the tip I is drawn upward over the working end of the incased lead A, a fresh portion of which is thereby exposed at the end of the tip. The casing which is thus exposed at the end of the tip, or a sufficient portion of it, is then cut away with a suitable cutting-instrument, so as to expose the lead for use.

This improved lead-pencil can be sold put together ready for use, as described, and as shown in Fig. 1. It can also be furnished and sold in parts to be assembled by the purchaser—that is to say, the holder provided with its tip I and interior guide, H, can be furnished separately; and, again, the incased lead A B, having its upper end fitted into the shouldered plug C, can be furnished separately.

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

1. The sheathed or incased lead A B, provided with a shouldered plug, C, in combination with a holder, G, substantially as described.

2. The holder G, annular guide H, and tip I, in combination with the incased lead A B and shouldered plug C, substantially as described.

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.