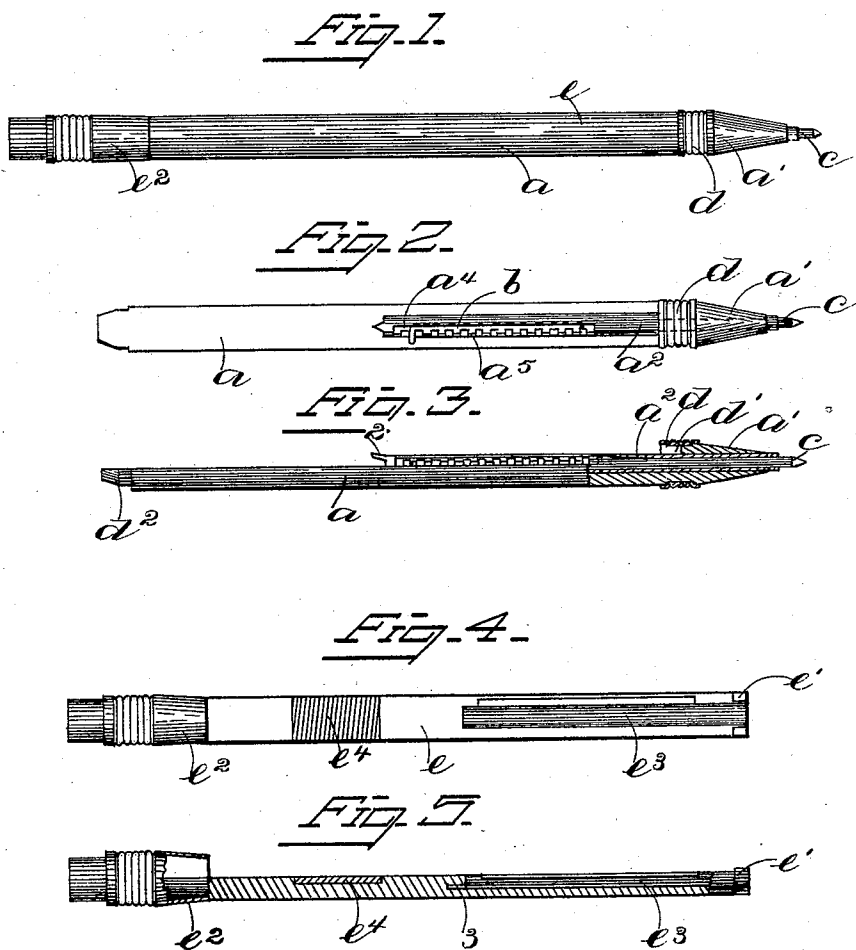


(No Model.)

E. E. MONROE.
COMBINED PENCIL AND SHARPENER.

No. 536,289.

Patented Mar. 26, 1895.



WITNESSES.
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UNITED STATES PATENT OFFICE.

ELMER E. MONROE, OF BOSTON, MASSACHUSETTS.

COMBINED PENCIL AND SHARPENER.

SPECIFICATION forming part of Letters Patent No. 536,289, dated March 26, 1895.

Application filed September 4, 1894. Serial No. 522,011. (No model.)

To all whom it may concern:

Be it known that I, ELMER E. MONROE, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in a
5 Combined Pencil and Sharpener, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

10 This invention has for its object to construct a combined pencil and sharpener, which when assembled in condition for use, has all the appearance and feeling of an ordinary lead pencil.

15 In accordance with this invention the body of the pencil is made in two longitudinal sections, provided with means at the ends for attaching them together. One section is designed to receive the lead, which is held by a
20 suitable clamping device, or other contrivance, and a push rod or plunger is provided for forcing the lead forward as desired. The other section is cut away to receive a small flat file, properly held therein, and when the
25 two sections are separated it may be used to sharpen the point of the lead, as an ordinary file.

Figure 1, shows in side elevation a combined pencil and sharpener embodying this invention;
30 Fig. 2, a plan view of the lead holding section, its inner face being exposed; Fig. 3, an edge view and partial section of the lead holding section shown in Fig. 2; Fig. 4, a plan view of the file holding section, its inner face
35 being exposed, and Fig. 5, a longitudinal section of the file holding section.

The lead holding section consists of the longitudinal half section a , of the cylindrical body, having a conical or pointed end a' , like
40 unto an ordinary lead pencil, with a central hole through it for the lead holding clamp or receiver a^2 , herein shown as made as a small cylindrical tube, open at each end, extending through the conical or tapered point, and also
45 along the section in a central groove provided for it. This cylindrical tube is cut away at one side, or slotted longitudinally as at a^4 , and one side of said slot is notched as at a^5 , from end to end.

50 The push rod or plunger b , of substantially the same diameter as the lead c , is contained

in said tube a^2 , at the slotted portion thereof, it having a right angular formation at the end which is adapted to enter one or another notch a^5 .

To advance the lead, the push rod is turned axially until its right angular formation is withdrawn from the notch, and then said rod is pushed against the lead c , after which it is turned back to its normal position, being thus
60 held in place.

The lead holding section has secured to it a cylindrical collar or ferrule d , adjacent the tapered end portion, which projects rearwardly beyond said tapered end portion so as
65 to leave a semicircular opening d' . The opposite end of the lead holding section is formed with a more or less contracted semicircular portion d^2 .

The file holding section, see Figs. 3 and 4, 70 consists of a longitudinal half section e , of the cylindrical body, one end being semicircular to enter the semicircular recess in the collar or ferrule d of the other section, and a cylindrical collar or ferrule e^2 , is secured to its opposite end which presents a semicircular
75 recess to receive the end d^2 , of the other half or section.

The section e is provided with a longitudinal central groove e^3 , extending from one end
80 inwardly, which receives the projecting portion of the cylindrical tubular lead advancing contrivance. The section e is cut away or recessed to receive a flat file e^4 , which may be seated therein.

To better enable the parts to be held together I have formed a projection 2, on the inner end of the tube a^2 , which enters an under-cut recess 3 at the inner end of the groove e^3 .
90

When it is desired to sharpen the point of the lead, the parts or sections are separated, exposing the file e^4 , that it may be used in the ordinary manner.

I do not desire to limit my invention to the
95 employment of all the features herein shown, as it is obvious that some of them may be omitted, and yet retain novel and meritorious features.

I claim—

1. In a combined pencil and sharpener, the combination of two longitudinal sections a , e ,
100

one adapted to hold the lead and the other the file, and means for attaching said sections together, substantially as described.

2. In a combined pencil and sharpener, the
5 combination of two longitudinal sections a , e , lead c , and advancing contrivance therefor held by one of said sections, and the file e^4 , held by the other section, and means for attaching said sections together, substantially
10 as described.

3. In a combined pencil and sharpener, the combination of two longitudinal sections, each having at one end a cylindrical ferrule which presents a semicircular recess for the end of
15 the other section, lead held by one section, and a file held by the other section, substantially as described.

4. In a combined pencil and sharpener, the
20 combination of two longitudinal sections, one adapted to hold lead, and the other adapted to hold a file, and means for attaching said sections together, and a contrivance for ad-

vancing the lead in the lead-holding section, consisting of a tube a^2 containing the lead, slotted longitudinally as at a^4 , and notched as
25 at a^5 , and a push rod b contained in said tube, having a right angular follower adapted to enter one or another notch, substantially as described.

5. In a combined pencil and sharpener, the
30 combination of two longitudinal sections, one adapted to hold the lead, and the other adapted to hold the file, means for attaching the ends of said sections together, and a projection as
2, at the middle of one of said sections adapted
35 to enter a recess formed in the other section, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ELMER E. MONROE.

Witnesses:

B. J. NOYES,

C. B. CROCKER.