

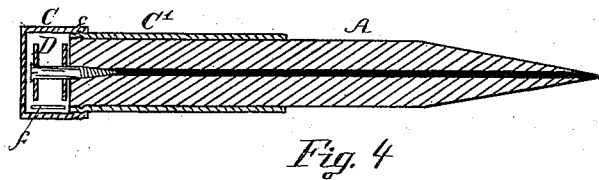
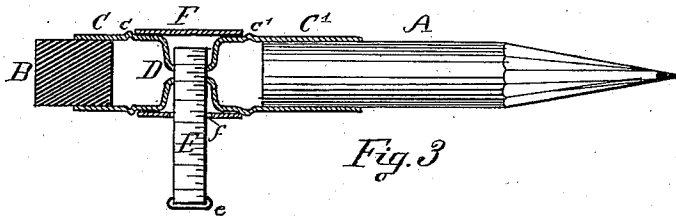
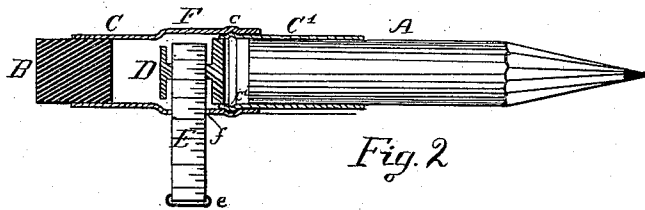
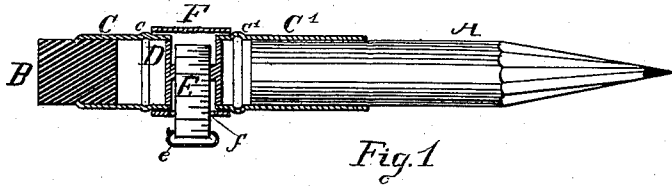
(No Model.)

I. B. MILLNER.

COMBINED LEAD PENCIL TIP AND TAPE MEASURE.

No. 310,840.

Patented Jan. 13, 1885.



WITNESSES:

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ISAAC B. MILLNER, OF WASHINGTON, DISTRICT OF COLUMBIA.

COMBINED LEAD-PENCIL TIP AND TAPE-MEASURE.

SPECIFICATION forming part of Letters Patent No. 310,840, dated January 13, 1885.

Application filed November 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, ISAAC B. MILLNER, residing at Washington, District of Columbia, have invented certain new and useful improvements in a Combined Lead-Pencil Tip and Tape-Measure; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification.

My invention has relation to a combined lead-pencil tip and tape-measure, and has for its object the provision of means whereby the ordinary metallic cap or sleeve which is sometimes applied to the end of a lead-pencil, and usually serves as a receptacle for the sharpened end of the pencil, and as a means of attachment to a pencil of a piece of rubber, may be utilized as the receptacle for a tape-measure.

My invention consists in the novel construction, combination, and arrangement of parts herein described, and specifically claimed.

I have devised several means of carrying my invention into effect, and will now proceed to describe, and have illustrated in the accompanying drawings, several modified forms of combined tape-measure and pencil-cap, all of which, however, I consider as falling within the spirit of my invention.

Referring to the accompanying drawings, Figure 1 is an enlarged longitudinal section of a metallic lead-pencil-protecting cap or tip, having a tape-measure wound up within the body of the same. Figs. 2 and 3 are similar views of modifications and Fig. 4 a section of a still further modification, the tape being removed.

In Fig. 1 the metallic cap, which receives a lead-pencil, A, and a piece of rubber, B, consists of two sections, C C', which are joined together by a small reel, D, to which the interior end of a tape-measure, E, is secured, and around which the said tape-measure is wound or unwound at pleasure. A sleeve, F, in which is a longitudinal slot, *f*, is slipped over the sections C C', so as to inclose the reel D, the tape E being drawn through the slot *f* when in operation. A small ring, *e*, is affixed to the end of the tape-measure to prevent it

from being drawn entirely through the slot *f* when it is wound up. The sleeve F fits loosely enough upon the sections C C' to permit of their turning freely therein, beads *e e'* being formed upon the sections C C' at the ends of the sleeve to prevent its being displaced by slipping along the sections C C'.

The manner of operating the device just described is as follows: When not in use, the tape-measure is wrapped upon the reel, a small portion of its end and the ring *e* alone protruding through the slot *f*. When it is desired to use the tape-measure, the sleeve F is held between the fingers, and the tape being grasped by its protruding end, is pulled out through the slot *f*, the sections C C', and with them the pencil and rubber, turning freely. When through with the tape-measure, it can be again coiled up, as before, by simply turning the lead-pencil, which turns the sections C C' and the reel.

An almost obvious modification of this device is shown in Fig. 2 of the drawings. In this arrangement the sleeve F is fast on or integral with the section C, and the reel is secured to or forms a part of the section C', beads *e e'* serving to keep the sections together while permitting them to turn one upon the other.

The operation of this device is substantially the same as that of the one shown in Fig. 1, and need not therefore be particularly described.

Fig. 3 of the drawings shows a slightly-different construction from that shown in Fig. 1, the reel being formed integral with the sections C C' by spinning or otherwise. The arrangement of the tape and the sleeve is the same as in Fig. 1.

In Fig. 4 the reel is placed on the end of an ordinary wood-screw, which is screwed into the end of the lead-pencil A, the section C being provided with the slot *f* for the passage of the tape-measure, and being arranged so as to turn upon the section C', or being made fast thereto, in which case the tape is wound up by turning the pencil within the section C', while the latter and the section C are held stationary.

In Letters Patent No. 309,483, granted to me December 16, 1884, I have shown and de-

scribed a tape-measure having a rotary central sleeve adapted to receive a pencil, whereby the tape may be wound up upon the sleeve by turning the pencil. Hence I do not claim such construction, broadly, herein. Neither do I claim, broadly, the combination of a lead-pencil and a tape-measure.

Having described my invention, I claim—

1. The combination, with the metallic tip of a lead-pencil, of a tape-measure adapted and designed to be coiled up within said tip, substantially as described.

2. The combination, with a metallic pencil-tip having a central shaft and a movable portion provided with a slot, of a tape-measure secured at one end to said shaft, its other end projecting through said slot, the said shaft being adapted to be revolved by turning the pencil, and the tape-measure being wound up thereby, substantially as described.

3. The combination, with a hollow pencil-

tip made in two or more sections, of a shaft or spindle secured to one of said sections, and a tape-measure secured to said shaft and passing through a slot in the other of said sections, whereby the tape will be wound up by turning either of the sections, substantially as described.

4. The combination of metallic sections C C', reel D, secured thereto, sleeve F, turning upon said sections, and tape-measure E, secured to said reel and passing through the slot *f* in said sleeve, substantially as described and shown.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of November, 1884.

ISAAC B. MILLNER.

Witnesses:

PHILIP MAURO,
JOS. B. CONNOLLY.