

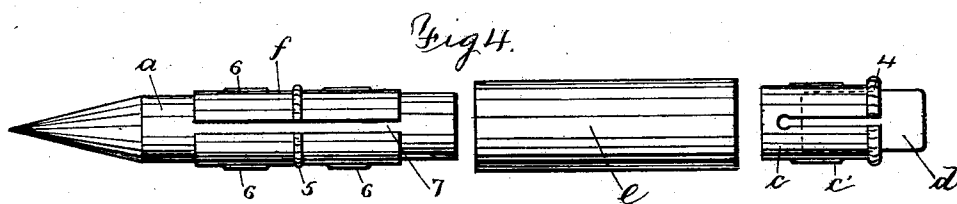
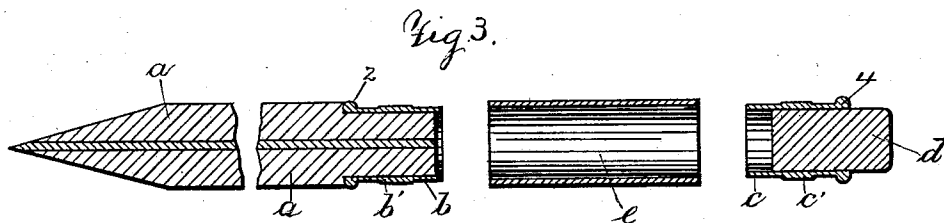
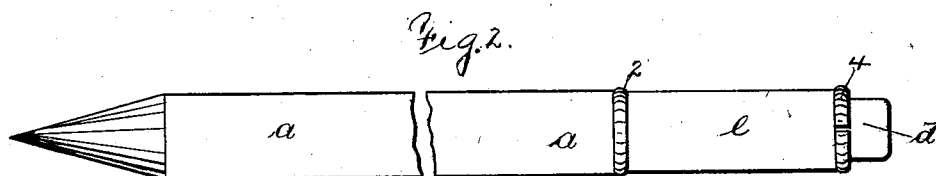
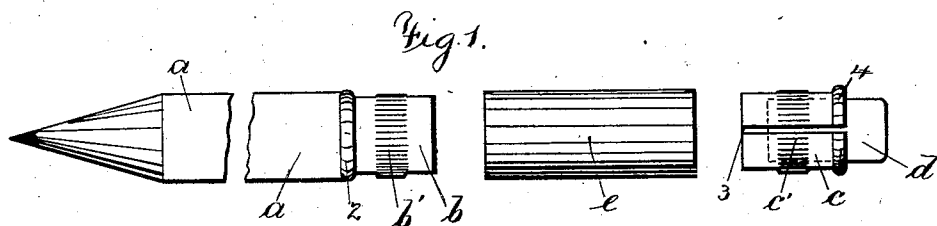
No. 703,721.

Patented July 1, 1902.

L. W. FABER.
PENCIL TIP.

(Application filed Dec. 13, 1901.)

(No Model.)



WITNESSES

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UNITED STATES PATENT OFFICE.

LOTHAR W. FABER, OF NEW YORK, N. Y.

PENCIL-TIP.

SPECIFICATION forming part of Letters Patent No. 703,721, dated July 1, 1902.

Application filed December 13, 1901. Serial No. 85,795. (No model.)

To all whom it may concern:

Be it known that I, **LOTHAR W. FABER**, a citizen of the United States, residing at the borough of Manhattan, in the city, county, and State of New York, have invented an Improvement in Pencil-Tips, of which the following is a specification.

My invention relates to an improved pencil-tip for holding an erasing-rubber. This device according to my invention is composed of three parts—a thimble or sleeve fitting upon the pencil, a second thimble which is split and adapted to receive and hold a rubber eraser, and a sleeve or tube one end of which fits over the thimble upon the pencil and the other end receives the split thimble and erasing-rubber—the parts being preferably made from thin sheet metal. The thimble or sleeve fitting upon one end of the pencil may be removable or fixed and if removable is advantageously split to be yielding.

In the drawings, Figure 1 represents a pencil broken and fitted with my improved tip, showing the parts thereof detached. Fig. 2 is a general elevation showing the parts assembled. Fig. 3 is a longitudinal section showing the parts detached and in substantially the same relation shown in Fig. 1. Fig. 4 embraces a modification of my improved pencil-tip.

In Figs. 1, 2, and 3, *a* represents a pencil, to the end of which a thimble *b*, of sheet metal, is attached in any desired manner, preferably by being forced over a reduced end. The surface of this thimble *b* is preferably provided at about its central portion with a roughened surface, preferably a series of longitudinal serrations or corrugations *b'*, circumferentially disposed, and the end 2 of the thimble *b*, which abuts against a shoulder on the pencil, may be turned over or flanged or made heavier than the thimble-tube.

c represents a second thimble similar to the thimble *b* in that it is provided with a roughened portion or serrations *c'* and one end 4 thereof made heavier than the thimble-tube. The thimble *c*, however, is wholly or partially split or longitudinally divided on one side, as at 3, and is adapted to receive and hold a rubber eraser *d*, the position of which is adjustable therein.

e represents a sleeve also preferably made

of sheet metal, whose inside diameter is approximately the same as the outside diameter of the said thimbles. The ends of the said tube are thus adapted to receive the said thimbles, the corrugations on the thimbles binding against the inner surface of the sleeve *e* and not only holding the parts together, but keeping the rubber eraser *d* held by friction and compression in any desired adjusted position.

The thimble *b* is conveniently furnished with every pencil, while the split thimble *c*, eraser *d*, and sleeve *e* are interchangeable with all pencils of the same diameter having the same-sized thimble fitted thereto. In assembling the tip the sleeve *e* is fitted over the thimble on the pencil and the other thimble pressed into the opposite end of the sleeve and the parts pressed together until the ends of the sleeve abut against the enlarged ends 2 and 4 of the respective thimbles.

As the position of the erasing-rubber is adjustable in the split thimble, it will be readily apparent that with this construction the rubber when not in use may be so placed in the split thimble that when the said thimble is inserted in the sleeve the rubber will be completely incased and protected down in the thimble and away from possible contact with substances that would be liable to soil the rubber.

In Fig. 4 I have illustrated a modification of my invention wherein instead of securing a roughened-surface thimble to the end of the pencil I may provide the pencil with a sleeve or double thimble *f*, having a knurled central portion 5 to facilitate the hold by the fingers. This part is advantageously made with raised portions 6 at diametrically opposite points on both sides of the knurled portion 5. This thimble is preferably split at 7, which allows it to be adjustable to any position along the length of the pencil. The sleeve *e* used with this form is precisely similar to the sleeve hereinbefore described, but may be advantageously somewhat longer, and the thimble *c* for receiving and holding the erasing-rubber may be only partially split on opposite sides, as shown in Fig. 4. By this construction the pencil-point may also be protected when not in use by reversing the pencil and inserting the pointed end within the

sleeve *e*, it being understood that the pressure between the sleeve *e* and the portions 6 of the sleeve *f* causes the latter to bind the pencil sufficiently tight to hold the same in
5 any desired position. With this modified structure it is possible to utilize short lengths of pencils, as the combined length of the parts is ample for the grasp of the fingers in writing.

I claim as my invention—

- 10 The combination with a pencil, reduced in diameter at one end, of a tubular metal part fitting and secured upon the reduced end thereof and having a circumferential rib and a partially raised or roughened surface, a

split thimble having a circumferential rib 15 and a partially raised or roughened surface, a rubber eraser frictionally held by the said thimble, and a sleeve the ends of which are adapted to receive the said thimble and the said tubular metal part and pencil, substan- 20 tially as specified.

Signed by me this 9th day of December, 1901.

LOTHAR W. FABER.

Witnesses:

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C. C. FLEMING.