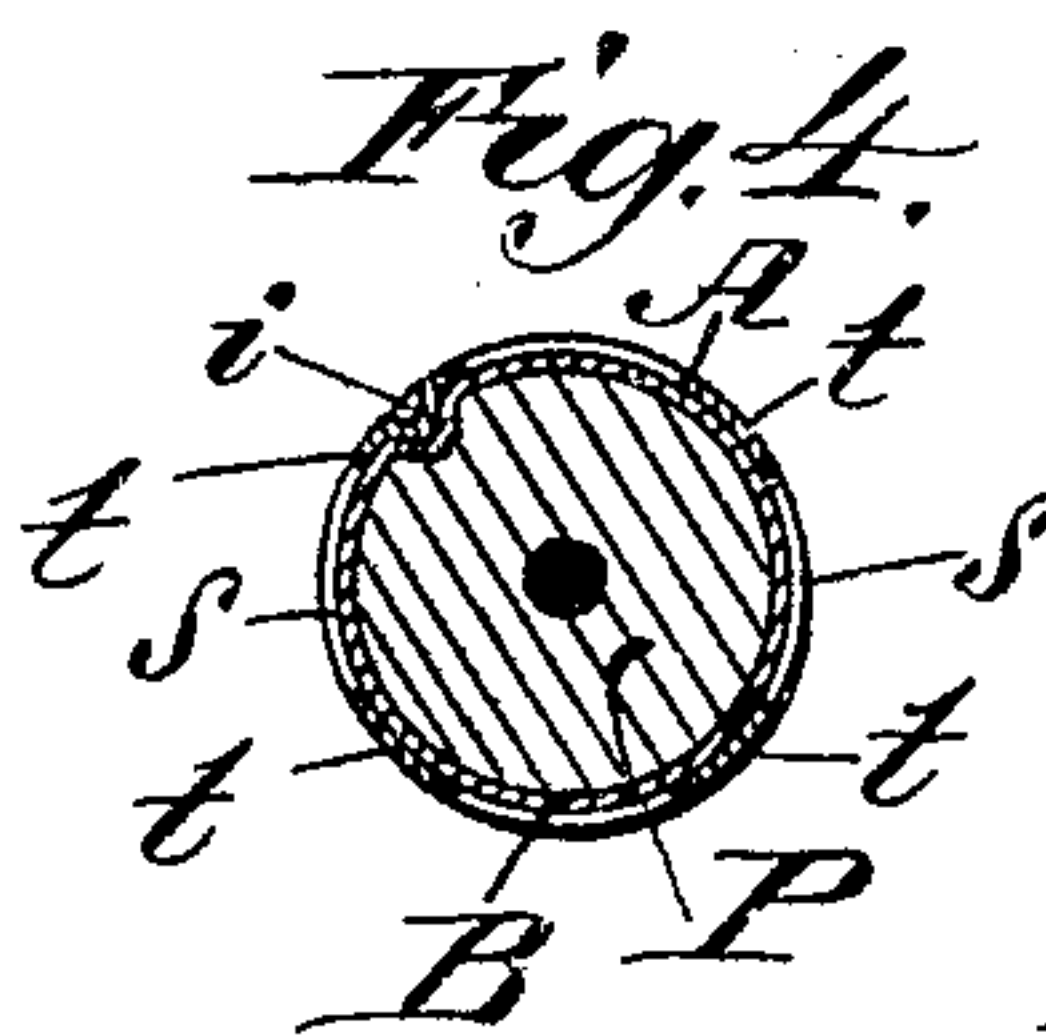
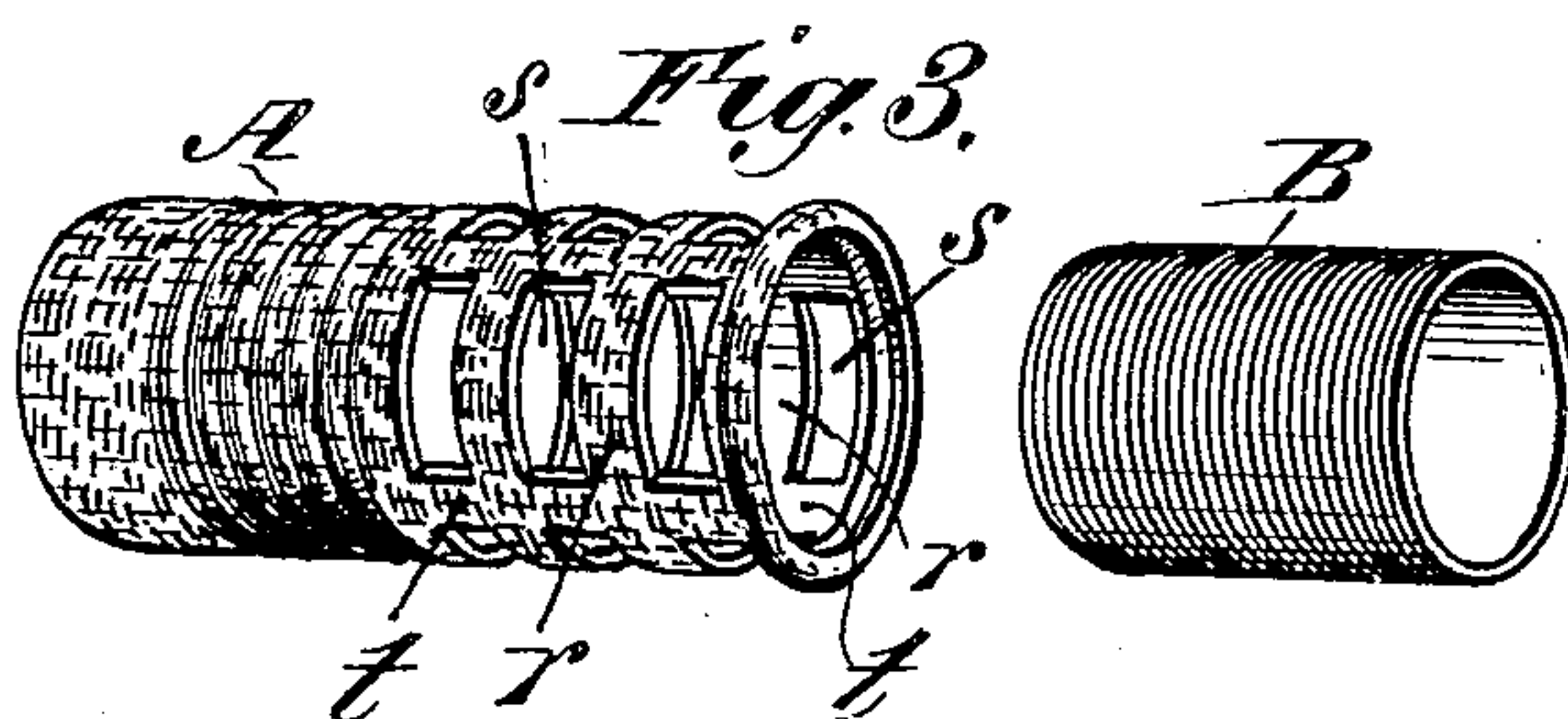
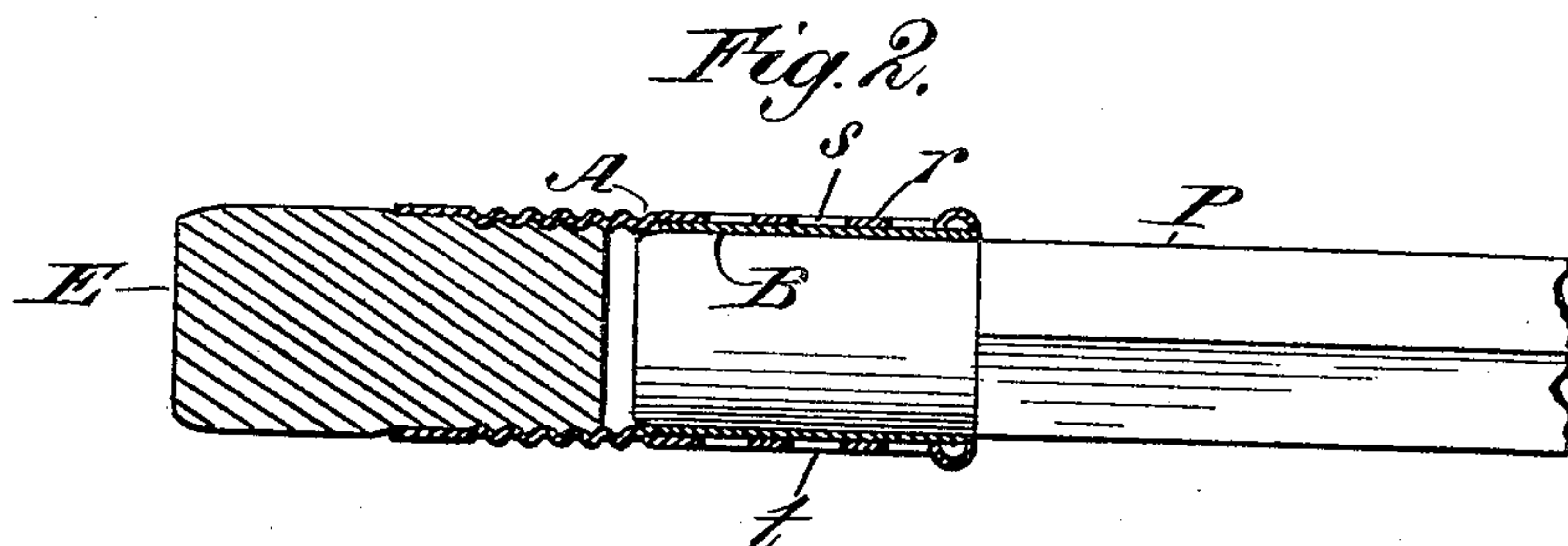
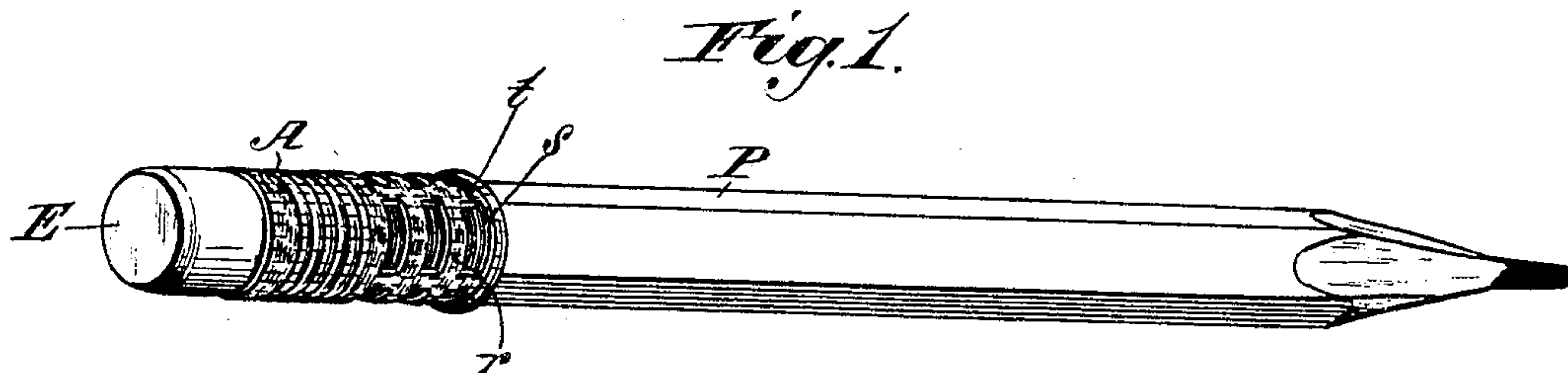


No. 824,375.

PATENTED JUNE 26, 1906.

F. MCINTYRE.
ERASER TIP FOR LEAD PENCILS, PENHOLDERS, PENCIL POINT PROTECTORS,
AND THE LIKE.

APPLICATION FILED APR. 13, 1906.



Witnesses:
Robert Corbett,
H. Lee Stalman

Inventor:
Frank McIntyre,
By Maxwell Bailey
his Att'y.

UNITED STATES PATENT OFFICE.

FRANK McINTYRE, OF NEW YORK, N. Y., ASSIGNOR TO EAGLE PENCIL COMPANY, OF NEW YORK, N. Y., A CORPORATION.

ERASER-TIP FOR LEAD-PENCILS, PENHOLDERS, PENCIL-POINT PROTECTORS, AND THE LIKE.

No. 824,375.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed April 13, 1906. Serial No. 311,581.

To all whom it may concern:

Be it known that I, FRANK McINTYRE, a citizen of the United States, and a resident of New York city, in the county and State of New York, have invented a new and useful Improvement in Eraser-Tips for Lead-Pencils, Penholders, Pencil-Point Protectors, and the Like, of which the following is a specification.

10 This invention relates to metallic tips designed to be applied to lead-pencils, penholders, pencil-point protectors, and the like and to hold erasive material, and more particularly to that kind of tip which is provided with one or more circumferential bands of a color or ornamentation contrasting with the body of the tip, as illustrated, for example, in my Patent No. 813,108, of February 20, 1906.

20 The object is to simplify the construction of the tip and to enhance its good appearance. To this end I make the tip of a tube or barrel which constitutes the holder for the erasive material and has formed in that portion of it which is beyond the said material one or more circumferential slots intersected by narrow strips serving to connect the metal on opposite borders of the slot or slots, and within this outer tube is a metallic ferrule which forms a close-fitting lining for the slotted portion of said tube and is of a color contrasting with the latter, so that the portions of the ferrule showing through said slots will give the effect of circumferential bands of color on the tip.

35 In the accompanying drawings, Figure 1 is a perspective view of a pencil provided with a tip embodying my invention. Fig. 2 is a longitudinal axial section of the same. Fig. 3 is a perspective view of the two parts of which the tip is composed. Fig. 4 is a cross-section through the slotted portion of the tip.

45 The tube A, which constitutes the body of the tip and holds the erasive material E, is of sheet metal and may be of any usual or desired configuration. That portion of it which is beyond the erasive material has formed in it one or more circumferential slots *s*, according to the number of bands desired. In the present instance there are three bands, to produce which the tube A has formed in it three parallel narrow slots *s*, separated from one another by narrow continu-

ous rings *r*, which are connected to each other and to the body of the tube by narrow longitudinal strips *t*—four in number in this instance—which divide each slot into a like number of sections, the rings *r* and strips *t* being integral with the body of the tube.

55 Within the slotted portion of the tube A is placed the thin sheet-metal ferrule B, which is externally enameled or otherwise colored to contrast with the color of the external tube and to constitute a close-fitting lining for the slotted portion of the latter showing through the slots, so as to give the effect of parallel broken lines of color slightly sunken below the external surface of the tip. The ferrule acts as a brace and stiffener for the slotted portion of the outer tube, preventing it from buckling and holding in proper place and shape the rings *r* and strips *t*.

By way of illustration the drawing represents a tip in which the ferrule is red, while the body of the tip is of yellow gold color, these colors being represented by their appropriate conventional hatchings.

65 In fitting the parts together the ferrule B is first fitted upon a suitable tenon formed for it on one end of the pencil P, the outer slotted tube A (containing the erasive material E) is fitted upon the ferrule, and the tip as a whole is then held in place on the pencil by the usual indentation *i*, (made by a suitable indenting-tool,) whereby the tube A and ferrule B are united together and the tip as a whole is made fast to the pencil.

I claim as my invention—

75 A metallic eraser-tip consisting of a sheet-metal tube containing erasive material, and circumferentially slotted as described, the opposite edges of the slots being connected at intervals by strips integral with the body of the tube, and a metallic ferrule of color contrasting with the body of the tip, inserted within, and constituting a close-fitting lining for, the slotted portion of the outer tube, as and for the purposes hereinbefore set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK McINTYRE.

Witnesses:

SAMUEL KRAUS,
LOUIS N. HARROWER.