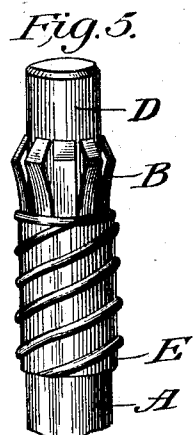
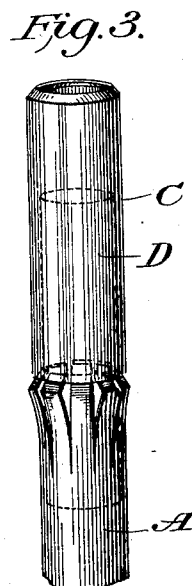
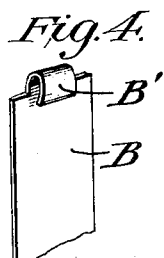
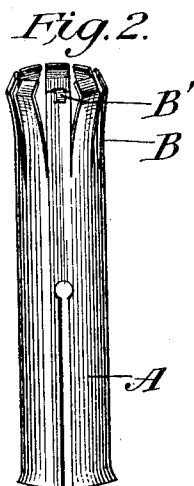
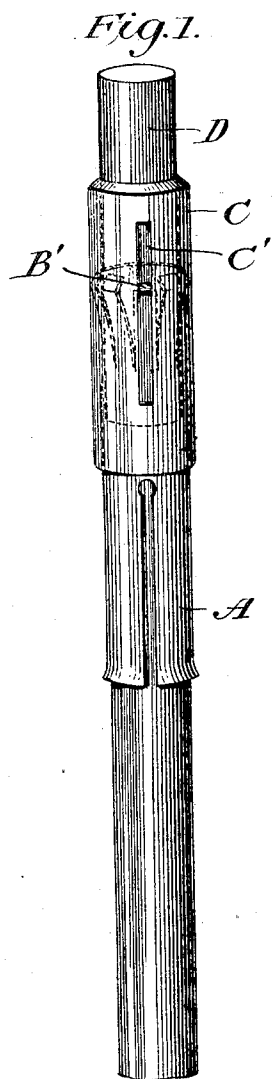


No. 699,743.

Patented May 13, 1902.

W. H. BROWNELL.
ERASER TIP FOR PENCILS.
(Application filed Aug. 28, 1901.)

(No Model.)



Witnesses:

Alice E. Houghton
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UNITED STATES PATENT OFFICE.

WILLARD H. BROWNELL, OF BATTLECREEK, MICHIGAN.

ERASER-TIP FOR PENCILS.

SPECIFICATION forming part of Letters Patent No. 699,743, dated May 13, 1902.

Application filed August 26, 1901. Serial No. 73,352. (No model.)

To all whom it may concern:

Be it known that I, WILLARD H. BROWNELL, a citizen of the United States, residing at the city of Battlecreek, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Eraser-Tips for Pencils, of which the following is a specification.

This invention relates to rubber tips for lead-pencils.

The objects of the invention are to provide a rubber or similar elastic eraser-tip for a lead-pencil which is readily removable from the pencil, in which the erasive material is adjustable, so that it can be allowed to project the proper distance to compensate for wear, and which can be readily withdrawn into the casing, and thereby be entirely protected and kept perfectly clean.

A further object of the invention is to provide a secure retaining means which is completely and effectively adjustable for holding an elongated piece of erasive material, thus making it practical to provide a superior erasive material, as the same can be used continuously, being transferred from pencil to pencil as the pencils are used up.

Further objects will definitely appear in the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined, and pointed out in the claims.

A structure embodying the features of my invention is fully illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an enlarged view of the structure, the position of the erasive material and clamping-jaws being indicated by dotted lines. Fig. 2 is an enlarged detail view of the inner sleeve, which is slitted to form jaws at its upper end. Fig. 3 is a detail illustration of the part appearing in Fig. 2 with the outer sleeve about to be pressed to position, the erasive material inserted within it being shown by dotted lines. Fig. 4 is a detail view of one of the jaws much enlarged with a retaining-lug thereon. Fig. 5 is an enlarged detail view of a modified form of my improved eraser-tip.

In the drawings similar letters of reference refer to similar parts throughout the several views.

Referring to the lettered parts of the drawings, A represents a sleeve slitted at its bottom for slipping over the end of a lead-pencil. The upper end of this is slitted into jaws B, the ends of which are turned slightly inward to engage the cylindrical rubber piece D, which is adjustable within the sleeve A. Outside of the sleeve A, I provide an adjustable sleeve or cylinder C, which embraces the jaws B closely and forces them into the resilient erasive material, and by this means it will be noted that the sleeve will slip back and forth over the jaws, which will be pressed outward in close contact with the same and hold it there securely by friction, and from this it will be observed that the sleeve can be slipped out over the rubber entirely or can be withdrawn back from the end, where it will be retained by friction, so that the tip of the rubber can be exposed for erasive purposes. The relative size of the inner and outer sleeves, the erasive material, and the expansion of the jaws fully appears in Fig. 3. I provide a longitudinal slot C' in the sleeve C, into which a lug B' on one of the jaws B projects. This prevents the sleeve from being drawn entirely off or from its being slipped back so far as to release the jaws, which would of course release the piece of erasive material.

In place of making a plain sleeve, as I have indicated in Fig. 1, the parts may be corrugated into a screw-thread form, as appears in Fig. 5, the outer sleeve there being marked E. A suitable stop can be provided on the structure appearing in Fig. 5 to prevent its being moved too far in either direction. The structure appearing in Fig. 1 is much less expensive to manufacture, while the structure appearing in Fig. 5 may be preferred on account of the screw action. The number of the jaws B at the upper end of the tube A is not material, it only being required that they be so formed that the outer tube will force them into the erasive material, and they will be pressed outwardly by the resilience of the material against the outer sleeve, so that the same is suitably held by friction and can be moved back and forth for exposing or concealing the rubber, as required.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a pencil-tip, the combination of a sleeve
5 A slotted at one end to fit on the upper end of
a pencil, the other end of which is slitted into
jaws B which are bent slightly inward, one of
said jaws being bent to form a lug B'; said
jaws adapted to receive an elongated piece
10 of elastic erasive material; an external sleeve
C containing a slot C' for engaging lug B' embracing
the said jaws and contacting with
the same sufficiently to crowd them into the
yielding erasive material, whereby the said
15 external sleeve is adjustable back and forth
over the said erasive material, for the purpose
specified.

2. In a pencil-tip, the combination of a sleeve
A slotted at one end to fit on the end of a lead-
20 pencil, the other end of which is slitted into
jaws B which are bent slightly inward and
adapted to receive an elongated piece of elastic
erasive material; an external sleeve C embracing
the said jaws and contacting with the

same sufficiently to crowd them into the yield- 25
ing erasive material whereby said external
sleeve is adjustable back and forth over said
jaws and over the erasive material, for the
purpose specified.

3. In a pencil-tip, the combination of a sleeve 30
adapted to fit on the end of a lead-pencil, the
upper end of which is divided into jaws which
are bent slightly inward and adapted to receive
an elongated piece of elastic erasive
material of such size as to force the jaws 35
slightly outward; an external sleeve embracing
the jaws and extending beyond the same
and crowding the same into the erasive material
to retain it securely and adjustably
back and forth over the same, for the purpose 40
specified.

In witness whereof I have hereunto set my
hand and seal in the presence of two witnesses.

WILLARD H. BROWNELL. [L. S.]

Witnesses:

ALICE E. HOUGHTON,
OTIS A. EARL.