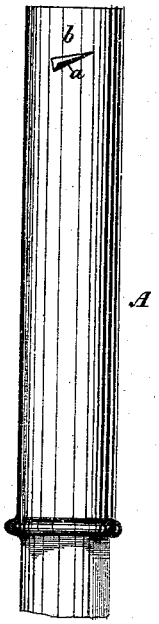
W. H. BENNETT.

COMBINED ERASER, HOLDER, AND PENCIL POINT PROTECTOR.

No. 182,632. Patented Sept. 26, 1876.

FIG. 1.



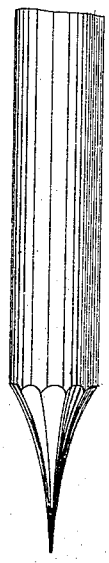


FIG. 2.

FIG. 3.

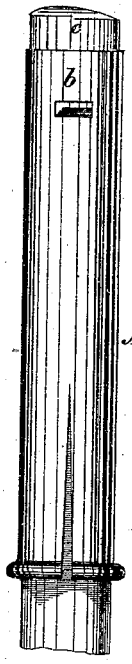


FIG. 4.

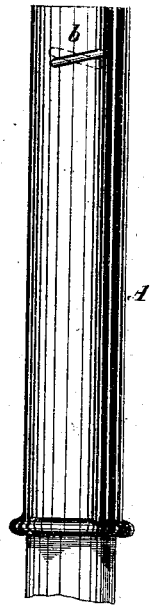
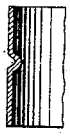


FIG. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM H. BENNETT, OF NEW YORK, N. Y., ASSIGNOR TO ORESTES CLEVELAND, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN COMBINED ERASER-HOLDER AND PENCIL-POINT PROTECTOR.

Specification forming part of Letters Patent No. **182,632**, dated September 26, 1876; application filed January 10, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. BENNETT, of the city, county, and State of New York, have invented an Improvement in Eraser-Holders and Pencil-Point Protectors, of which the following is a specification:

The means heretofore employed for securing erasive heads in metallic tubular holders, which are adapted for attachment to ordinary lead-pencils either as supports for the eraser or as protectors for the pencil-point, have been provided at the extremity of the tube, the result of which is that, in manipulating the eraser in removing marks from a rigid surface, the said eraser is worked out of its holder and requires to be frequently restored to its proper position.

The object of this invention is to overcome this defect of construction; and the invention consists in an eraser-holding tube provided with a means for engagement with the erasive head, which projects into the tube at a point so far removed from its mouth or outer end as to afford a plain bearing-surface at the extreme end of said tube, whereby a leverage or bearing is provided for the erasive head, which is sufficient to protect it from being drawn or twisted out of the hold of the means which retains it within the tube.

Holding devices which embody my invention are shown in the accompanying drawings, where—

Figures 1, 3, and 4 are plan views; Fig. 2, a top view of Fig. 1, and Fig. 5 a section taken through the projection of Fig. 4.

The device shown in Figs. 1 and 2 consists of a holder formed from a single piece of sheet metal, which is brought into the form of a split tube and provided with two or more wedge-shaped flanges, which are cut from the sides of the tube-body and turned inwardly, preferably at right angles, so as to form projecting flanges, which shall engage with the erasive head. The said flanges lie in inclined planes, whereby they not only hold the erasive head against longitudinal strain, but act as a screw-thread, and thus facilitate its insertion into the tube and its adjustment therein.

The tube A is made from any suitable sheet material, drawn or otherwise fashioned into a cylindrical tube. The form of a split tube, as in Fig. 2, which is adapted to firmly grasp or clamp the pencil, is preferred, since such a tube is adapted to be fitted upon pencils of different diameters. But a solid tube, or one having the eraser-holding end made solid, while the end receiving the pencil-body is split, may be employed in carrying out my invention, as in Fig. 4.

Clips or tongues *a* are cut from the tube-body and turned inwardly at right angles, or nearly so, to the tube sides, which clips or tongues are of wedge form, and constitute flanges or projections that embed themselves in the rubber eraser or forcibly impinge upon its surface and hold it firmly in place when the erasive head is inserted in the holder or into engagement with the tongues, or is forced past them. These clips or tongues are situated at some distance from the upper edge or mouth of the tube, thereby providing a portion, *b*, of the tube smooth and uninterrupted, which said portion acts as a bearing for the erasive head above the holding clips or tongues, thus relieving them from so much of the strain exerted upon the erasive head in its use as to prevent its being unseated or worked out of place. The incision in the metal tube forming these clips or tongues is cut at such an angle that the flanges formed thereby lie in inclined planes, and thus form segments of screw-threads. They are thereby adapted to facilitate the movement of the rubber eraser into and out of the tube when it is inserted into the tube or is adjusted therein.

The erasive head *c* is of the ordinary cylindrical form, and is inserted into the holder by introducing one of its ends into the mouth end of the holder, and then turning it round until it has engaged the clips or tongues and they have become embedded in it. It may thus be adjusted so as to protrude beyond the end of the tube or be entirely covered thereby. The several projecting tongues may be arranged so as to form different portions of the same or independent screw-threads, as is obvious.

I have thus far described the device shown in the Figs. 1 and 2 of the drawing, but while they show a construction advantageous, by reason of its simplicity and cheapness of pro-

duction, they illustrate but one of many forms in which my invention may be applied.

The means for retaining the erasive head within the tube may be simple teats or other shaped projections formed by swaging or upsetting the body of the tube without perforating it, and they may be inclined projections forming segments of a screw-thread, or be extended to form a helix. They may be simple spurs, if that form of holding device is preferred, and, whatever be the construction of the eraser holding or retaining devices, they may project in planes parallel to or coinciding with the end or mouth of the tube. These modifications are shown in Figs. 3, 4, and 5.

Any means operating substantially as described for holding the eraser, which is situated at a distance from the mouth or end of the tube, which shall provide a bearing-surface, *b*, for the body of the erasive head, and prevent its easy displacement when manipulated in erasing marks, I regard as within the scope of my invention.

I therefore claim—

1. The eraser-holder herein described, consisting of a tube having inwardly-projecting inclined retaining tongues located at some distance below the upper end of the tube, and so as to provide a bearing-surface, *b*, for the erasive head, substantially as shown and described.

2. The combination of an erasive head, with a tube provided with inwardly-projecting holding devices, and with a plain inner surface at its outer end, substantially as shown and described.

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

W. H. BENNETT.

Witnesses:
H. T. MUNSON,
JOHN C. FOSTER, Jr.