

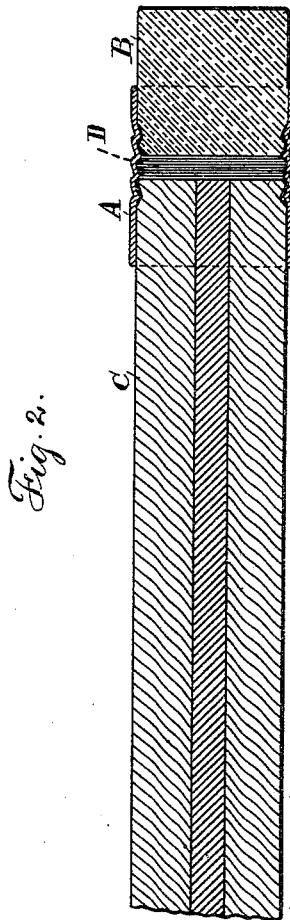
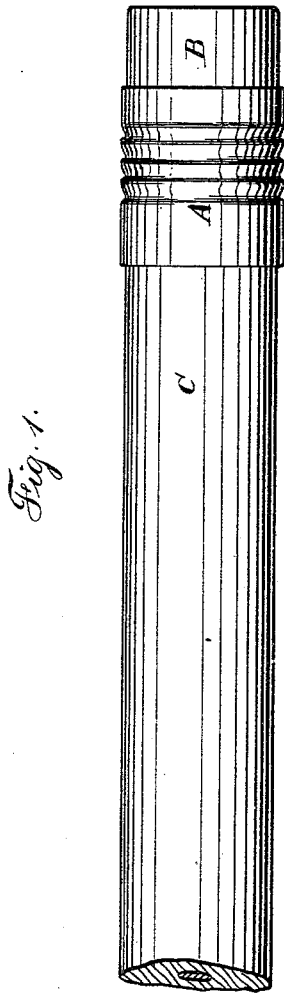
(No Model.)

E. FABER.

MEANS FOR ATTACHING RUBBER TIPS TO PENCILS.

No. 457,579.

Patented Aug. 11, 1891.



Witnesses:
J. Staut
Chas. J. Smith

Inventor:
Eberhard Faber
per *Samuel W. Serrell* atty

UNITED STATES PATENT OFFICE.

EBERHARD FABER, OF WEST NEW BRIGHTON, NEW YORK.

MEANS FOR ATTACHING RUBBER TIPS TO PENCILS.

SPECIFICATION forming part of Letters Patent No. 457,579, dated August 11, 1891.

Application filed March 26, 1891. Serial No. 386,422. (No model.)

To all whom it may concern:

Be it known that I, EBERHARD FABER, a citizen of the United States, residing at West New Brighton, in the county of Richmond and State of New York, have invented an Improvement in Means for Attaching Rubber Tips to Pencils, of which the following is a specification.

Lead-pencils have been provided with india-rubber erasers or tips at one end attached by bands or cylinders of metal or other material, and very frequently the cylinder that is connected to the pencil has been provided with a screw-thread in the sheet metal of the cylinder for screwing the rubber into or out of the holder. In practice it has been found that the rubber is liable to work loose within the metallic tube or holder and fall out, especially when such rubber projects to a distance beyond the end of the metal tube. Paper tubes or holders have been made use of at the end of the pencil to connect the rubber to the same; but such paper tubes are liable to become injured and they are not easily kept clean and the paper detracts from the appearance of the pencil.

In the drawings, Figure 1 is an elevation of my improved pencil, and Fig. 2 a section, both being of magnified size.

In my present improvements I make use of a narrow metal band A in order to lessen the expense and at the same time to maintain the proper appearance of the pencil, and I insert the rubber plug or eraser B into this band A. If these parts only were made use of, the rub-

ber would be liable to separate from the band and the band to separate from the pencil. To avoid these two difficulties I roughen the metal band A on its exterior surface by pressing into the metal band peripheral grooves or similar indentations, and I apply glue at D between the inner end of the plug and the end of the pencil C in order that such glue may cause the rubber to adhere directly to the pencil and that the glue may pass into the grooves or roughening of the metal band, and thereby connect the rubber and the band and the band and the pencil, because such glue spreads into the grooves and by setting retains the band in position, although such glue may not adhere to the metal itself. I insure a firm hold of the pencil to the metal band and the rubber by this simple but efficient device.

I claim as my invention—

The combination, with the rubber tip or eraser and the pencil, of a narrow metallic band surrounding the junction of the two and having peripheral grooves or indentations, there being glue or similar adhesive material between the rubber and the pencil end, which also passes into the grooves or roughening of the metallic band for connecting the parts together, substantially as set forth.

Signed by me this 20th day of March, 1891.

EBERHARD FABER.

Witnesses:

L. W. FABER,

I. G. OSBORN.