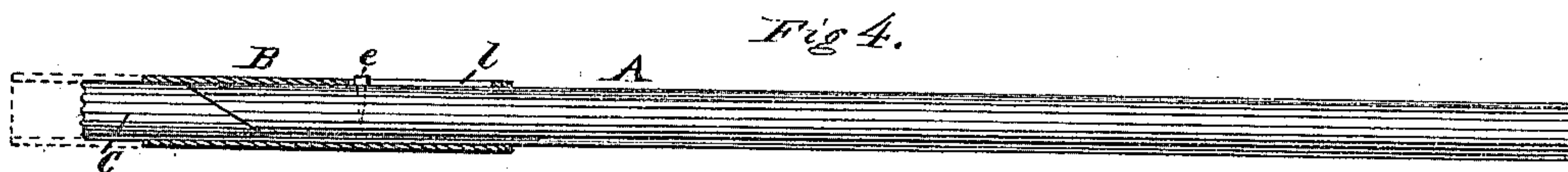
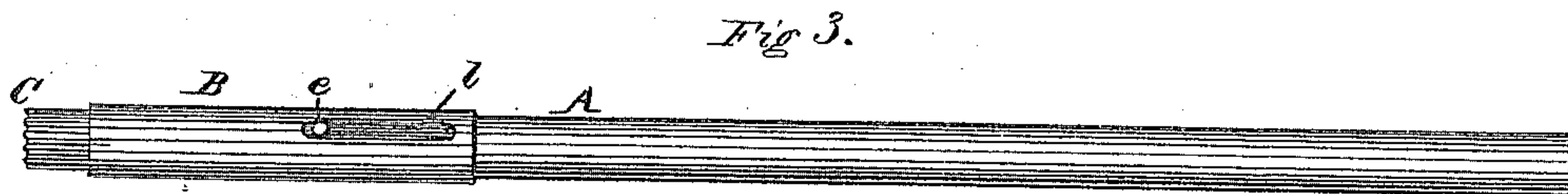
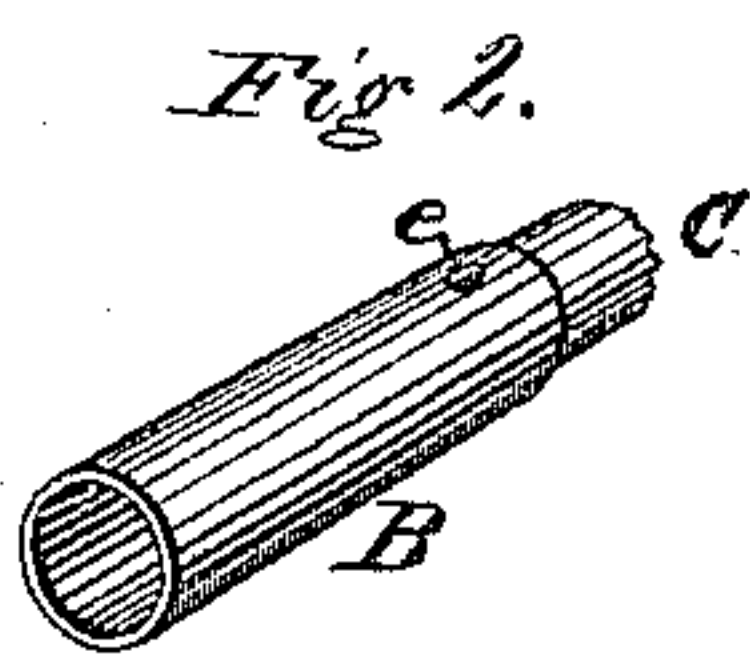
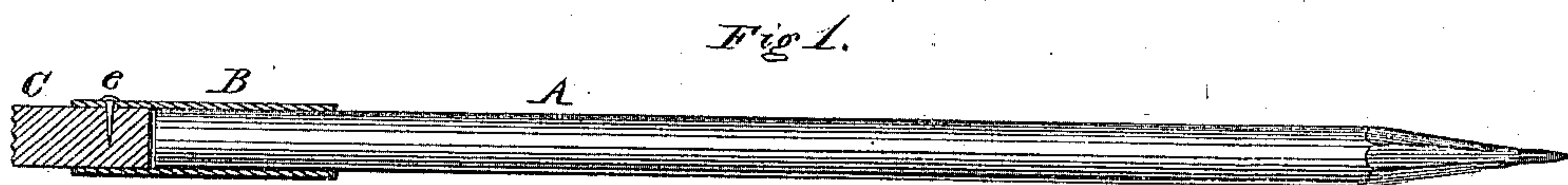


S. D. HOVEY.

Lead-Pencils.

No. 134,382.

Patented Dec. 31, 1872.



*Witnesses.*

*Harry King.*  
*S. M. Poole*

*Inventor.*

*Samuel D. Hovey*  
*by Dodge Munn*  
*Attys.*

# UNITED STATES PATENT OFFICE.

SAMUEL D. HOVEY, OF BROOKLYN, NEW YORK, ASSIGNOR TO GOODYEAR'S RUBBER-HEAD-PENCIL COMPANY.

## IMPROVEMENT IN LEAD-PENCILS.

Specification forming part of Letters Patent No. 134,382, dated December 31, 1872.

*To all whom it may concern:*

Be it known that I, SAMUEL D. HOVEY, of Brooklyn, in the county of Kings and State of New York, have invented certain Improvements in Pencils, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to the attachment of rubber-erasers to pencils; and the invention consists in the use of a paper tube for attaching and protecting the rubber, as hereinafter explained.

The Figures 1, 2, 3, and 4 represent the various methods of applying my invention.

I first construct a short paper tube, as represented by B of the several figures, and secure in one end of it a piece of rubber, C, as shown in Figs. 1 and 2, the rubber protruding therefrom, as represented, so as to be conveniently used for erasing pencil-marks on paper. The rubber may be secured to the paper tube by means of a small nail or rivet, *e*, as shown in Figs. 1 and 2, or it may be cemented or fastened in any suitable manner.

When thus arranged, as represented in Fig. 2, the paper tube B is slipped on the end of the pencil A, as represented in section in Fig. 1, in which case the pencil is provided with an eraser at all times ready for use.

In Figs. 3 and 4 I have shown a modified plan of applying the paper tube. In this case the rubber C is secured permanently to the end of the pencil, and the paper tube B is

then slipped loosely over both rubber and pencil, and held on by a pin, *e*, which passes through a slit, *l*, previously made in the tube B, and is driven into the pencil A, as represented in Figs. 3 and 4. By this means the tube B can be shoved up so as to cover the rubber, as indicated by the dotted lines in Fig. 4, and thus protect the eraser from becoming soiled when carried in the pocket. If desired the rubber can be thus arranged to slide in the tube, and be then used separate from the pencil, it thus forming a convenient pocket-eraser, the tube serving both as a handle and as a case for protecting the rubber from becoming soiled or greased, which would impair its utility and soil the drawing or paper on which it is to be used.

These paper tubes can be made much cheaper than the metal tubes used in my patent of August 17, 1869, being sufficiently durable to answer the purpose; and, if desired, they may be colored to correspond with the color of the pencil, or may be ornamented in any desired manner.

Having thus described my invention, what I claim is—

The combination of the paper tube B, eraser C, and pencil A, substantially as set forth.

SAMUEL D. HOVEY.

Witnesses:

JAMES McDONNELL,  
JAMES T. BROTHERTON.