

A. T. CROSS.  
Screw Pencil-Cases.

No. 156,452.

Patented Nov. 3, 1874.

FIG. 1.

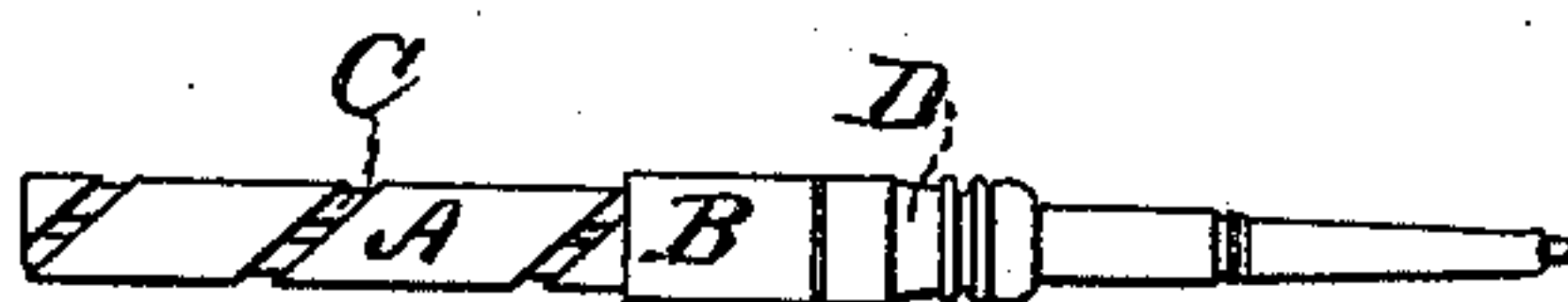


FIG. 2.

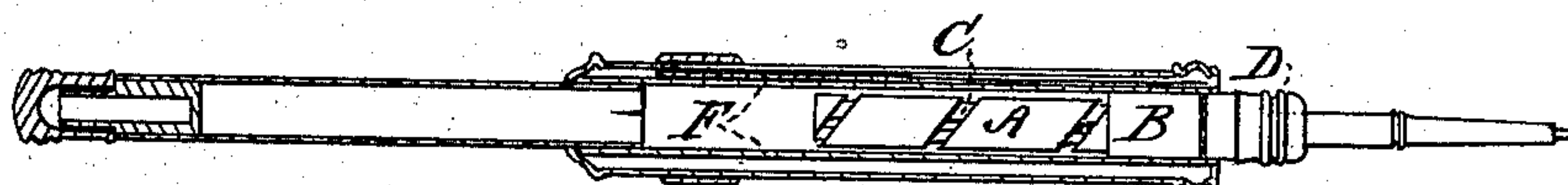


FIG. 3.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN SCREW PENCIL CASES.

Specification forming part of Letters Patent No. **156,452**, dated November 3, 1874; application filed June 8, 1874.

*To all whom it may concern:*

Be it known that I, ALONZO T. CROSS, of Providence, in the State of Rhode Island, have invented an Improvement in Screw Pencil Cases; and do hereby declare that the following is a full and exact description, reference being had to the accompanying drawing, making a part of this specification.

In screw pencil cases, as heretofore constructed, the screw mechanism, which is liable to get out of order, has uniformly been soldered or permanently attached to the tube which covers up the screw. The device is not, therefore, accessible for repairs. In order to remedy this defect, I have constructed a pencil in which the screw and its outer tube are not permanently attached to each other by soldering or otherwise, but which are so held that they may be readily separated, when desired.

I will now proceed to describe one method of joining the screw and tube detachably, although, of course, I am not confined to this particular mode of construction, as the invention consists in the ready detachability of the screw and its tube as distinct from the fixed and permanent attachment heretofore universally employed.

Figure 1 represents the screw pencil mechanism when separated from the outer case. Fig. 2 represents the application of my improvement to an extension pen and pencil

case. Fig. 3 represents the application of my improvement to a screw pencil case.

Upon the screw A (shown in Fig. 1) is soldered the friction-sleeve B; and upon the slotted tube C is soldered the milled tip D. The exterior diameter of the sleeve B is to be slightly greater than that of the cylindrical portion of the milled tip D, in order that when the screw mechanism is passed into the forward end of the case F, as shown in Fig. 3, the sleeve B will make a snug fit with the outer case or tube F, and will serve, by means of friction, to hold the screw mechanism and the case F together.

The screw mechanism is similarly held in the combined pen and pencil case shown in Fig. 2, and may be readily withdrawn at any time for cleaning or for repairs.

Any of the well-known modes of attaching tubes to each other, so that they may be readily detached without injury, may be used, instead of the frictional means herein described.

I therefore claim as my invention—

The detachable screw pencil mechanism, consisting of the slotted tube C, screw A, friction-sleeve B, and tip D, as a new article of manufacture.

ALONZO T. CROSS.

Witnesses:

S. SCHOLFIELD,  
BENJN. CROSS.