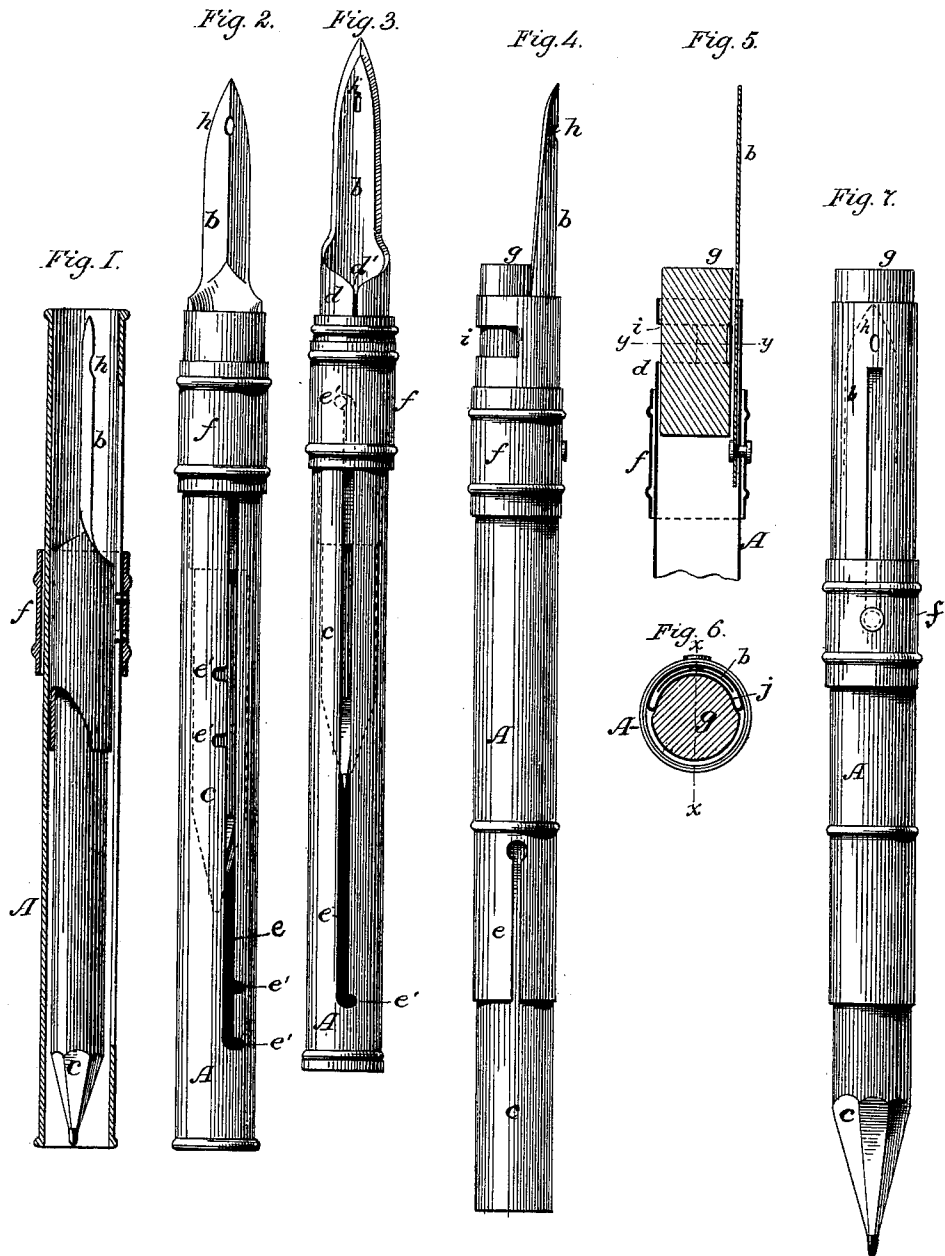


J. W. McGILL.
Pencil Attachment.

No. 220,632.

Patented Oct. 14, 1879.



Attest:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN PENCIL ATTACHMENTS.

Specification forming part of Letters Patent No. **220,632**, dated October 14, 1879; application filed March 15, 1879.

To all whom it may concern:

Be it known that I, JOHN W. MCGILL, of the city, county, and State of New York, have invented certain new and useful Improvements in Pencil Attachments for erasing, cutting, and punching; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the figures and letters of reference marked thereon.

My invention consists, mainly, in certain improvements upon an invention for an improvement in pocket pencil-knives for which Letters Patent were granted to me October 29, 1878.

My improvement consists, first, in inclosing the pencil-knife in a hollow cylindrical case or shell in such a manner that it can be easily pushed out of or drawn into said cylindrical case or shell, and in inserting in the rear end of the cylindrical barrel which constitutes the shank of said knife the butt-end of a pencil in such manner that both the knife and the pencil may at the same time be completely within the cylinder, and either pushed out at pleasure without exposing the other; secondly, in drilling a hole in the sliding knife-blade near its point, through which a ribbon or tape may be inserted, so that when the knife is punched through several sheets of paper or other fabric it will carry said ribbon or tape through with it for the purpose of fastening said papers or other fabrics together; and, thirdly, in connecting with the shell or case a rubber eraser in such manner that when the knife is drawn within the shell said rubber eraser will protrude in a condition for use.

In the accompanying drawings, Figure 1 represents a longitudinal section of a metallic pencil-case having a flat knife-blade in one end and a pencil in the other, both being drawn within the case or shell. Fig. 2 is an elevation of the same with the knife-blade projected and the pencil (shown in dotted lines) drawn within the case or shell. Fig. 3 represents the same thing as Fig. 2, except that the knife-blade is concave or segmental in cross-section instead of being flat. Fig. 4 is an elevation of a pencil-case having a knife-blade and a rubber

eraser projecting from one end and a pencil inserted in the other end. Fig. 7 is a view of the same with the knife-blade drawn within the case. Fig. 5 shows a longitudinal section (on line *x x* of Fig. 6) of the knife end of the same with the knife projected. Fig. 6 shows a cross-section on line *y y*, Fig. 5.

A is the cylindrical case or shell in which the knife and pencil are inclosed. *b* is the knife, and *c* the pencil. The knife should be made of the best steel, swaged into the form shown in the drawings by the use of suitable dies and swages, well known to manufacturers and workers in metal.

The blade of the knife may be in the concave or segmental form shown in my said patent of October 29, 1878, and in Fig. 3 of the accompanying drawings, or it may be made flat, as shown in Figs. 1 and 2, and it should have a sharp point and one or two sharp edges. An eye or hole, *h*, is drilled through the blade near its point, for the purpose hereinbefore mentioned, and the knife is properly hardened, tempered, sharpened, and pointed.

The cylindrical barrel or hollow shank *d* of the knife, which is of the same sheet-steel as the blade and integral with it, is open on one side, as shown at *d'*, Fig. 3, and its elasticity readily adapts it to the cylindrical shape of a pencil inserted in its rear end, and it acts on said pencil end as a cylindrical spring holder or clasp, from which the pencil may be easily removed and another one substituted when desired.

The pencil-knife, with its open hollow cylindrical shank, either with or without a pencil in its rear end, is then inserted in the case or shell A, as shown in all the figures, which shell or case has a slot, *e*, in one side, running nearly from end to end, and terminating at one or both ends in a bayonet-lock, *e'*.

The object of the slot in the case A is as follows: A sliding ring, *f*, is placed upon the shell or case A, so as to embrace the same, and the knife-shank is attached to said ring by means of one or more rivets passing through the ring, said slot *e*, and the knife-shank, and headed on the inside of the latter and on the outside of said ring. The ring and the knife-

shank being thus securely attached together, the ring may be easily moved toward or from either end of the case A, carrying the knife and the pencil (when the latter is inserted in the rear end of its shank) with it.

In order to lock and prevent the knife from slipping in the shell or case, either while in use or otherwise, the ring may be turned so as to move the rivets into the bayonet-lock, and when it is desired to move the knife back within the case the same is unlocked by a reverse movement of the ring. The same movement will lock and release the pencil when one is inserted in the rear end of the shank.

When the knife-blade is made flat I prefer to bend it down at its shank, so that it will occupy a central position in the case, as shown in Fig. 1.

In Figs. 4, 5, 6, and 7 is shown a modification of the pencil-case to adapt it to receive and hold a piece of erasive rubber, *g*, in the knife end thereof. Near the end of said case is cut a slot, *i*, nearly half-way around the circumference of the cylindrical case, the part *j* cut out to form the slot not being severed at either end, but being bent down so as to form nearly a half-circle, concentric with the cylin-

drical case, but not in close contact with it, as shown at *j* in Fig. 6. This leaves a space between said segmental portion so bent down and the case for the knife-blade to move in, and the elasticity of the part so bent down holds the cylindrical rubber plug *g* firmly in its seat without obstructing the movement of the knife-blade.

What I claim as my invention is—

1. The combination of the cylindrical slotted pencil-case A, the knife *b*, with its barrel-shank *d*, open at one side, and the ring *f*, connected with the knife-shank through the slot *e* in the case, by means of which the knife or pencil may be pushed out of or drawn within the case, substantially as described.

2. In a pencil-case containing a knife adapted to be pushed out of and drawn within the same, substantially as herein described, a rubber eraser inserted within and protruding from the same end of the case which contains the knife, and prevented from obstructing the movement of the knife, by means substantially such as herein shown and described.

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Witnesses:

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