

L. W. FAIRCHILD.
Combined Pencil and Watch Key.

No. 216,031.

Patented June 3, 1879.

Fig. 1.

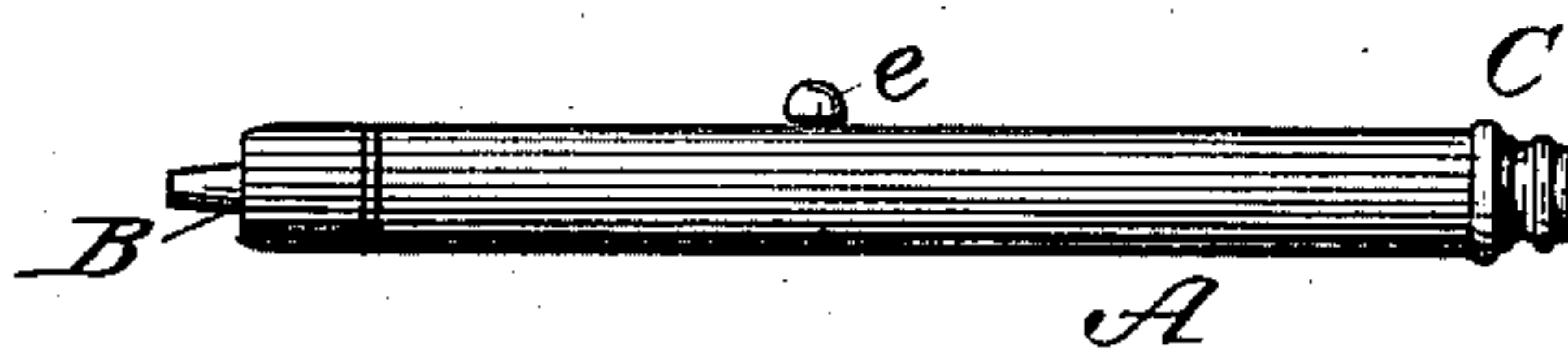


Fig. 2.

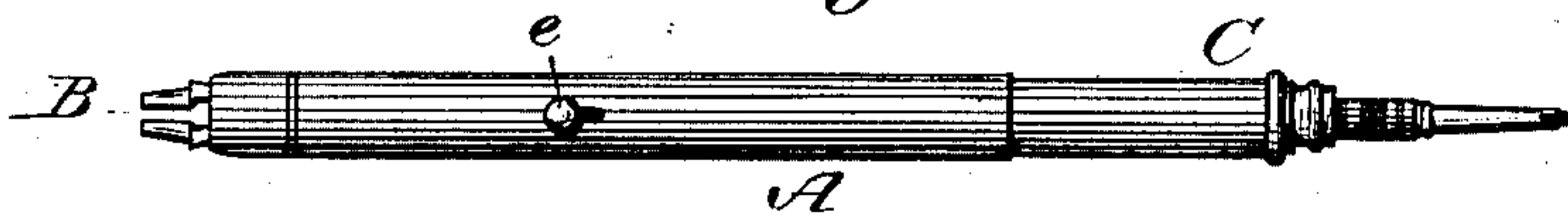
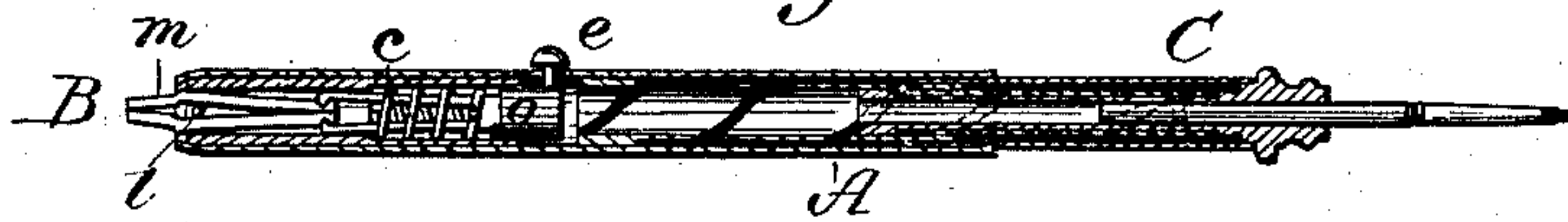


Fig. 3.



Witnesses:

Donn P. Twitchell.
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Inventor:

L. W. Fairchild,
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Atty

UNITED STATES PATENT OFFICE.

LE ROY W. FAIRCHILD, OF NEW YORK, N. Y.

IMPROVEMENT IN COMBINED PENCIL AND WATCH-KEY.

Specification forming part of Letters Patent No. **216,031**, dated June 3, 1879; application filed February 20, 1879.

To all whom it may concern:

Be it known that I, LE ROY W. FAIRCHILD, of the city of New York, in the county of New York and State of New York, have invented certain Improvements in Combined Pencil and Watch-Key, of which the following is a specification.

My invention relates to a new article of manufacture consisting of a case having arranged at one end a magic pencil and at the other end an expansible watch-key, as herein-after more fully described.

Figure 1 is a side elevation of the article closed and of the natural size. Fig. 2 is a similar view with the pencil extended, and Fig. 3 is a longitudinal section of the same.

To construct a combined key and pencil on my plan, I first provide a suitable case, A, which may be made of any desired style, and in one end secure what is known as a "magic pencil," C, the operating part of which consists of two tubes, each provided with a spiral groove or slot, but in reverse directions, and placed one over the other, with pins working in said slots in such a manner that when the pencil is drawn out there will be imparted to the pencil-point a movement double that produced by the ordinary single screw. As the construction of these so-called "magic movements" is well known to the trade, its further description is deemed unnecessary. I then arrange at the opposite end of the case an expansible watch-key, constructed to operate on the general plan of the key described in the several patents granted to J. S. Birch, November 12, 1867, and subsequently. In this case the two jaws *m*, which together constitute the pipe of the key B, are made with their outer sides inclined, as shown in Fig. 3, and are engaged at their rear ends between two hooked arms of a slide, *o*, as shown. Around the arms of this slide is placed a spiral spring, *e*, which at its rear end bears against a shoulder on the slide *o*, and at its front against a shoulder on the inside of the case, the effect of said spring being to draw the jaws *m* backward into the case, and by pressure of the case against their inclined sur-

faces press them together, there being a pin, *l*, put transversely through the case A at the end, so as to pass between the jaws and cause them to separate as they are shoved outward, and at the same time keep them from turning within the case when used in winding a watch.

A thumb-piece or pin, *e*, is secured to the slide *o*, and extends outward through a slot in the case A, by which, when holding the article in the hand, the jaws of the key can be pressed outward and made to open or separate, as described, so as to enlarge the opening or space between them, to adapt them to fit different-sized arbors of watches, the spring *e*, as soon as pressure is removed from the thumb-piece, drawing them backward and causing them to clasp the arbor tightly between them.

It is obvious that, if preferred, the ordinary ring or band may be made to encircle the case A, and be connected to the slide *o*, and used instead of the thumb-piece *e*, the same as in ordinary pen or pencil cases.

By this construction and arrangement of parts I am enabled to produce a very compact and convenient article, combining all the advantages of a separate watch-key and pencil, and rendering the loss of the key far less liable than when carried separately in the pocket, as watch-keys usually or frequently are.

I do not claim, separately considered, either a magic pencil or an expansible watch-key, as I am aware that such have before been made; but

What I do claim is—

In combination with the tube or barrel A of a pencil-case, the adjustable jaws *m*, with the spring *e* applied thereto in such manner as to retract or draw the jaws into the case, and the thumb-piece *e*, arranged to shove the jaws outward from the case, substantially as and for the purpose set forth.

LE ROY W. FAIRCHILD.

Witnesses:

Q. MCADAM,
HOWARD BECK.