J. A. HOLLENBERGER.

PENCIL.

APPLICATION FILED JULY 18, 1918.

1,298,343.

Patented Mar. 25, 1919.

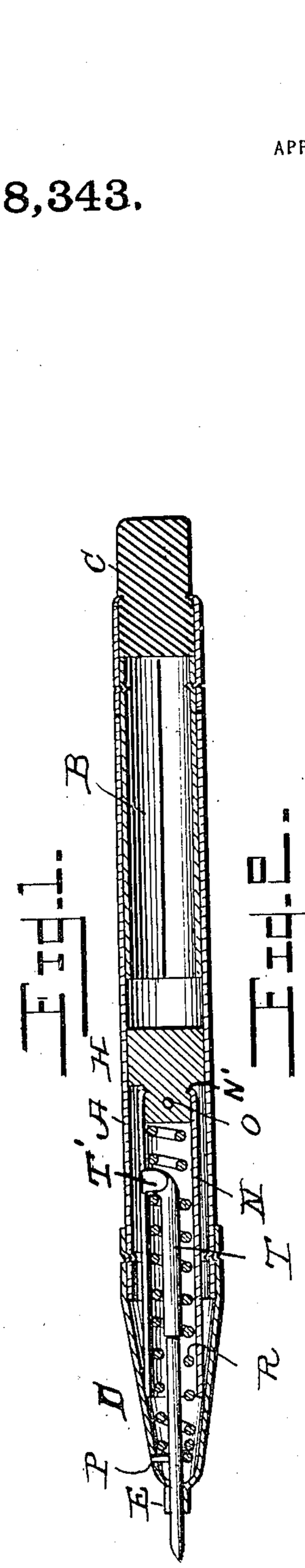

Fig. 1.

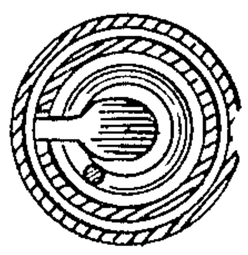

Fig. 2.

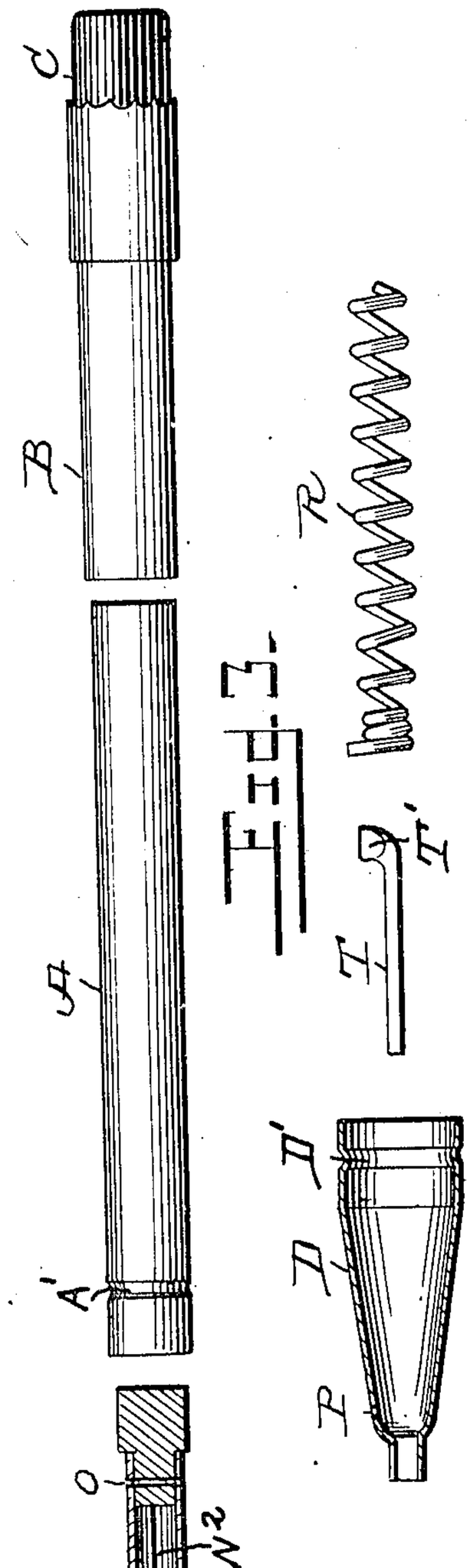

Fig. 3.

Witnesses.

J. M. Towler Jr

Louis Ballard

Inventor

J. A. Hollenberger

By Franklin N. Hough

Attorney

UNITED STATES PATENT OFFICE.

JOHN A. HOLLENBERGER, OF HAGERSTOWN, MARYLAND.

PENCIL.

1,298,343. Specification of Letters Patent. Patented Mar. 25, 1919.

Application filed July 18, 1918. Serial No. 245,535.

To all whom it may concern:

Be it known that I, JOHN A. HOLLENBERGER, a citizen of the United States, residing at Hagerstown, in the county of Washington and State of Maryland, have invented certain new and useful Improvements in Pencils; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in pencils, and especially in the provision of means for removing the lead forward within the casing.

The invention comprises various details of construction, combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings which, with the letters of reference marked thereon, form a part of this application and in which:

Figure 1 is a sectional view longitudinally through a pencil, made in accordance with my invention.

Fig. 2 is a sectional view transversely through the pencil, and

Fig. 3 is a view in elevation showing the parts disassembled.

Reference now being had to the details of the drawings by letter:

A designates a hollow cylindrical barrel portion within which a split shell B of metal forming a cartridge is adapted to telescope, and which is adapted to contain pencil leads, said shell carrying an eraser C. A tapering cap D has a contracted end with a slit E formed therein and through which lead is adapted to be fitted. Said cap has an annular rib having swiveled connection with one end of the barrel portion, making access to the interior thereof impossible without destroying the pencil, and hence producing a device whereby the contents may not be easily tampered with. A plug H has a split shell N fitted over a contracted portion thereof, the end of the shell N being provided with teeth which engage the plug to securely hold the parts together. Said plug is of such a diameter, and made of any suitable material such as wood and held in place by means of a pin O passing through the shell, plug and barrel portion, and serves to hold the plug from rotation within the barrel portion. The outer end of the shell is adapted to bear against the tapering end of the cap and a space intervenes between the marginal edges of the shell N. A coiled wire R is mounted within the shell N and one end of the coil has an end extending through an aperture P formed in the cap near its tapering end, and serves as means for causing the wire to rotate with the cap.

A follower T is mounted to have a longitudinal movement within the coil and is provided with a laterally extending end passing between the convolutions of the coil and also between the longitudinal edges of the shell N, which edges serve to prevent the coil having a movement independent of the shell within which it is contained and also of the barrel portion. The convolutions of the coil at its inner end are closed, or nearly so, and which will serve as a means for limiting the movement of the follower in one direction, as the outwardly projecting end of the follower cannot move between the said closed convolutions.

By this provision, it will be impossible to strain the coil by continued turning of the barrel or cap after the follower has reached its limit in one direction.

By the provision of a device embodying the features of my invention, it will be noted that a simple and efficient pencil is provided, so arranged that the lead when not in use may be pushed back into the cap and barrel, and when desired to be used, may be thrown out to position by the rotary movement of the barrel, while the cap is held stationary.

What I claim to be new is:

A pencil, comprising a hollow barrel portion, a tapering cap swiveled thereon and having an apertured slitted end, a plug fitted within the barrel portion and having a contracted extension, a cylindrical split shell fitted over said extension and its outer end engaging the tapering wall of said cap, a coil of wire mounted within said shell and abutting against the extension of said plug, the outer end of the coil extending through an aperture in the cap and having adjacent to its ends convolutions which are in contact with each other, a follower mounted within

said coil and having its inner end outwardly bent and extending through the space intermediate the longitudinal edges of the split shell, the inner end of the coil, which is resilient, adapted to spring by said outwardly bent end of the follower as the cap and pencil are rotated in opposite directions.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JNO. A. HOLLENBERGER.

Witnesses:
ELIAS S. HEATH,
ALLEN YINGLING.