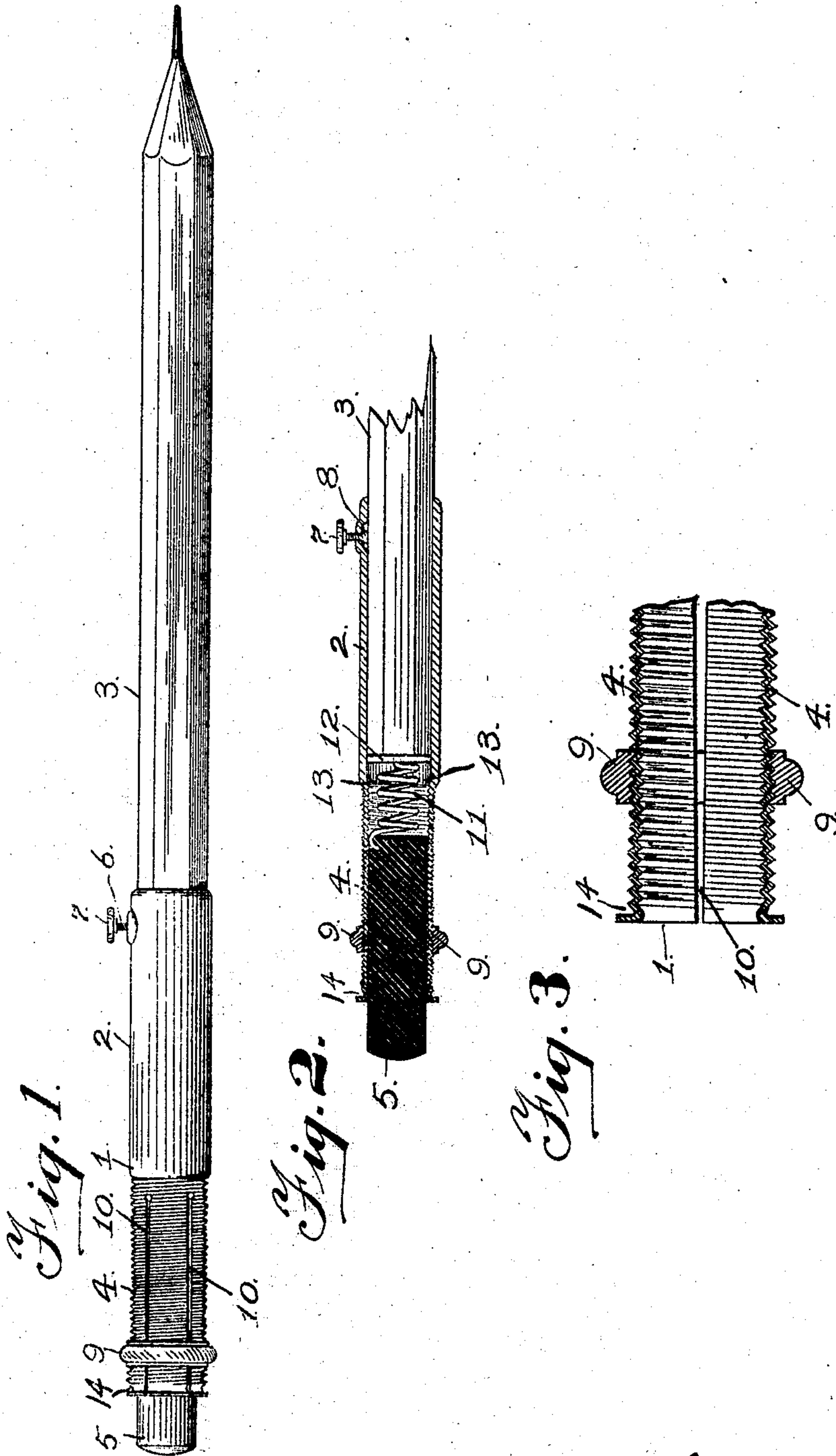


No. 806,235.

PATENTED DEC. 5, 1905.

A. F. W. BOWEN.
RUBBER HOLDING ATTACHMENT FOR PENCILS.
APPLICATION FILED DEC. 2, 1904.



Witnesses

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ANNIE F. W. BOWEN, OF SAN FRANCISCO, CALIFORNIA.

RUBBER-HOLDING ATTACHMENT FOR PENCILS.

No. 806,235.

Specification of Letters Patent.

Patented Dec. 5, 1905.

Application filed December 2, 1904. Serial No. 235,265.

To all whom it may concern:

Be it known that I, ANNIE F. W. BOWEN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Rubber-Holding Attachments for Pencils, of which the following is a specification.

This invention relates to an improved eraser-holder for pencils, the object of my invention being to provide a device of this character in which the eraser will be securely held and in which it can be adjusted to compensate for wear in the eraser and also to allow any desired portion thereof to project from the holder.

My invention, therefore, resides in the novel construction, combination, and arrangement of parts for the above ends hereinafter fully specified, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation showing the holder attached to a pencil. Fig. 2 is an enlarged longitudinal section of the holder, showing the end of a pencil therein; and Fig. 3 is an enlarged broken longitudinal section of a portion of the holder, the rubber being removed.

Referring to the drawings, 1 represents a holder which is made out of metal, preferably sheet metal of a suitable thickness. Said holder comprises a smooth cylindrical part 2, by which it is secured to the end of the pencil 3, and a threaded cylindrical part 4, which holds the eraser 5. The part 2 of the holder is secured to the end of the pencil in any suitable manner, as by means of a stem 6, screwed through a hole in said cylindrical portion and having a milled head 7, by which it can be turned, the inner end of the screw having a foot 8 to press the pencil firmly against the circular holding portion 2 of the holder and clamp the same.

The eraser consists of a piece of rubber 5 cylindrical in form, and is inserted in the portion 4 of the holder, being firmly clamped therein by means of a nut 9, which is screwed on the threaded portion 4 of the holder. This threaded portion has a number, as three, of slits 10 extending longitudinally from the open end of the holder to points near the end of said threaded portion, allowing the threaded portion to expand and to be compressed. Said threaded portion terminates at the outer end in a circular groove 14, separated, of course, into three sections by means of the three slits

10, the inner surface of which groove forms blunt shoulder-sections which extend inward and rest upon the surface of the piece of rubber 5. Therefore by screwing the nut toward said outer end said shoulder-sections are more and more strongly pressed into the rubber and firmly clamp the same, and when the nut rests directly over said groove the eraser is firmly held in the holder. By screwing the nut toward the pencil end of the threaded section said shoulder-sections spring outward and the eraser may be removed. This grooved end of the holder constitutes an important feature of this invention. Heretofore it has been the practice to use the sharp edges of the holder to grip the rubber. By continuing the thread up to the end of the holder I am enabled to obtain a sufficient grip of the rubber even though using the comparatively blunt ridge formed by the inner surface of the groove, and thus to sufficiently grip the rubber without cutting the same.

Between the end of the pencil and the end of the rubber is interposed a coiled spring 11, attached at one end to a plate or disk 12 and at the other end inserted into the rubber. The plate is retained within the holder by the shoulder 13 thereof. This spring expands and presses out the rubber when permitted to do so by unscrewing the nut 9. At the same time the plate or disk 12 being retained within the holder serves to retain any irregularly-shaped eraser within the holder and prevent its entire extrusion therefrom.

The holder can be used over and over again on different pencils and with different rubbers, and the construction is such as to conveniently admit of different kinds of rubber being substituted for different purposes, as desired.

I claim—

1. A device of the character described, comprising a holder having a threaded portion adapted to receive the rubber and having a plurality of slits extending inwardly from the rubber-holding end of the holder to a point near the opposite end of the threaded portion, and having a groove at the rubber-holding end forming an inwardly-extending shoulder adapted to firmly grasp the rubber without cutting, a nut screwed on said threaded portion, and means for securing the holder to the end of a pencil, substantially as described.

2. A device of the character described, comprising a holder having a threaded portion adapted to receive the rubber and having a

plurality of slits extending inwardly from the rubber-holding end of the holder to a point near the opposite end of the threaded portion, and having a groove at the rubber-holding
5 end forming an inwardly-extending shoulder adapted to firmly grasp the rubber without cutting, a nut screwed on said threaded portion, and means for detachably securing the holder to the end of a pencil, substantially as
10 described.

3. A device of the character described, comprising a holder adapted to be placed upon the end of a pencil provided with means for

clamping a piece of rubber and having a shoulder, a plate retained within the holder between the shoulder and the end of the pencil and a spring secured at one end to said plate and at the other end to said rubber, substantially as described. 15

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses. 20

ANNIE F. W. BOWEN.

Witnesses:

FRANCIS M. WRIGHT,
BESSIE GORFINKEL.