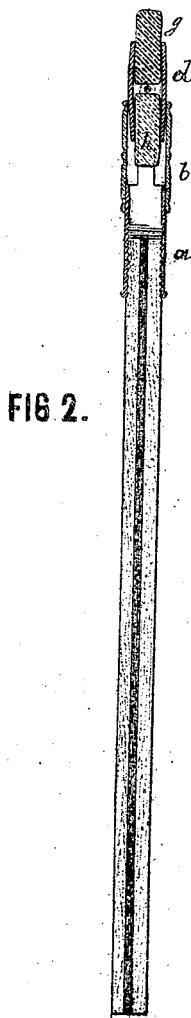
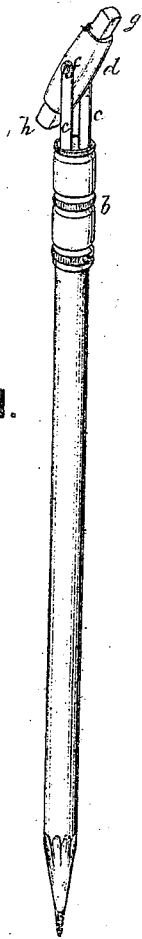


G. H. Richards,
Pencil.

No. 100,189.

Patented Feb. 22, 1870.



George H. Richards
by
A. S. Wood
Attorney

WITNESSES.

W. S. Bailey
W. H. Cole

United States Patent Office.

GEORGE H. RICHARDS, OF NEW YORK, N. Y.

Letters Patent No. 100,189, dated February 22, 1870.

IMPROVEMENT IN ERASER ATTACHMENT FOR PENCILS, &c.

The Schedule referred to in these Letters Patent and making part of the same

To whom it may concern:

Be it known that I, GEORGE H. RICHARDS, of New York, in the county and State of New York, have invented a certain new and Improved Attachment to Pencils, Pen-Handles, and similar articles; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents a lead-pencil provided with my improved attachment.

Figure 2 is a vertical central section of the same.

My invention consists of a rotating reversible head for holding rubber erasers, the same being constructed and adapted to be attached to a pencil, pen-handle, or other handle, as hereinafter stated.

In the drawings I have represented, in illustration of my invention, the rotating reversible head combined with a lead-pencil.

The devices employed in connection with the head for the purpose of assuring it in position, and of holding it to the pencil, consist of a ferrule or socket, *a*, a sleeve, *b*, and standard *c*.

The ferrule *a* is of tubular form, open at both ends. Its lower end is screwed or otherwise suitably fitted upon the end of the pencil, while from its upper end extend the standards *c*, between which the head *d* is pivoted at *f*.

The head is intended to hold rubber erasers, and is therefore made of tubular form, having in one end an ink-eraser, *g*, and in the other a pencil-eraser, *h*.

By rotating the head upon its axis or pivot, either end, *g* or *h*, can be brought uppermost, and the head is then held in the required position by means of the sleeve *b*, which fits upon the ferrule *a*, and slides up and down thereon.

The standards *c* are made slightly bulging, as is also the tubular head *d*, so that when the sleeve is moved up it will be brought in close contact with, and will tightly compress the standards and head, thus securely holding the latter in the proper position for use.

It is not necessary, however, that the head should

be open at both ends. Indeed, by closing one of the ends, important advantages will accrue.

Suppose, for instance, the end where the eraser *g* is inserted were closed, there would be only one eraser *h*, which, when in the position shown in fig. 2, would be effectually protected and covered by the sleeve. By this means the rubber or other article which the head carries may be shielded and protected when not in use, thus admitting of the pencil being carried in the pocket without danger of soiling or dirtying the rubber tip.

The tubular head is also adapted to hold crayons and like articles.

I am aware that heretofore a pen has been swiveled to its holder, so that it might be reversed; but my invention is of a different nature, as it comprises a swiveled tubular head adapted to receive rubber erasers and crayons, and arranged so as to be capable of rotating freely upon its axis, this result being due to the mode of swiveling the head between standards so as to allow it to revolve without hindrance when the sleeve is in its lowest position.

The head, also, is so combined with the sleeve that the latter, when raised, will constitute a closed chamber or receptacle to inclose and surround the rubber not in use; and the sleeve has no contact with the rubber, but operates by clasping or embracing the slightly bulging sides of the head, while the rubber itself need not touch the sleeve.

What I claim, therefore, and desire to secure by Letters Patent, is—

An attachment to pencils, pen-handles, &c., consisting of the ferrule *a*, sleeve *b*, standard *c*, and tubular revolving head *d* pivoted between said standards, said parts being constructed and arranged for joint operation, as shown and specified.

In testimony whereof, I have signed my name to this specification before two subscribing witnesses.

Witnesses:

GEO. H. RICHARDS.

O. S. GRADY,
S. BRAISTED.