

(No Model.)

E. A. HILL.  
MAGNETIC PEN HOLDER.

No. 424,786.

Patented Apr. 1, 1890.

FIG. 1.

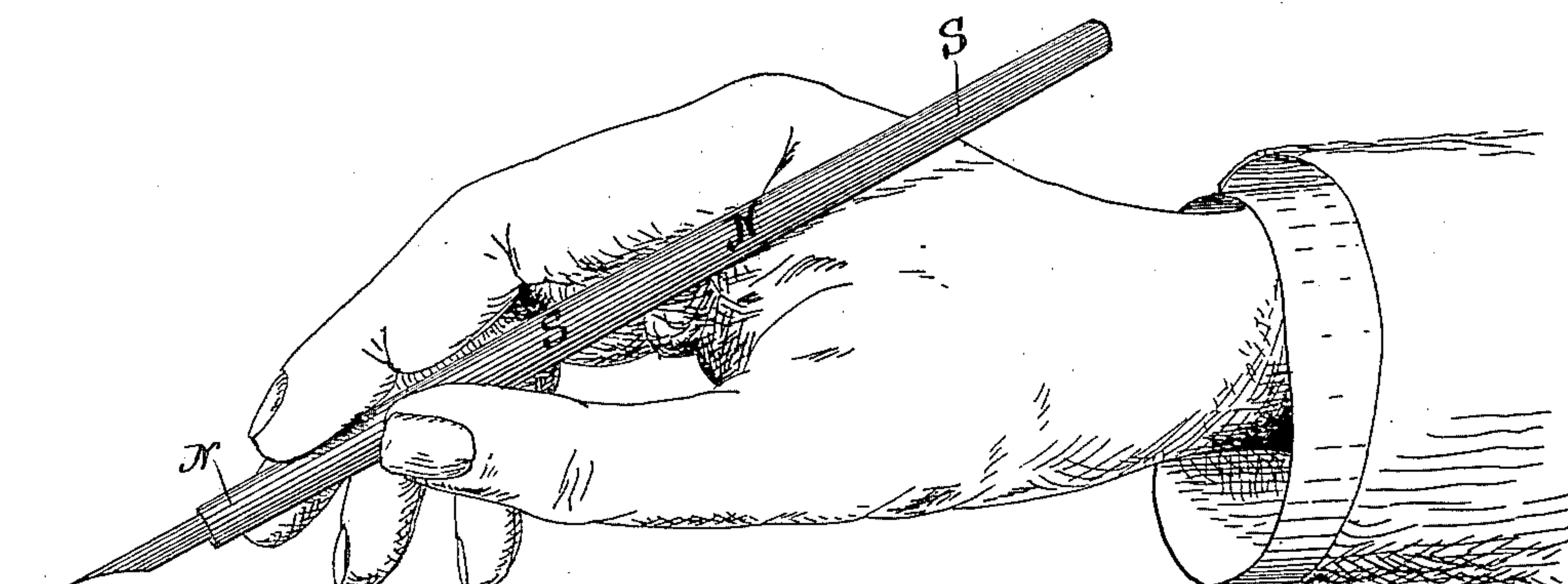


FIG. 2.

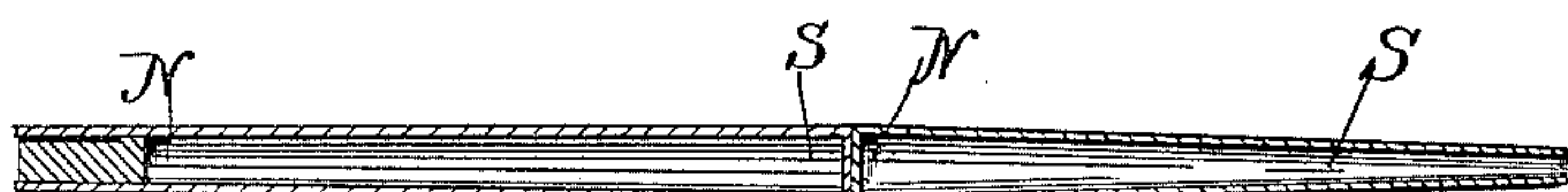
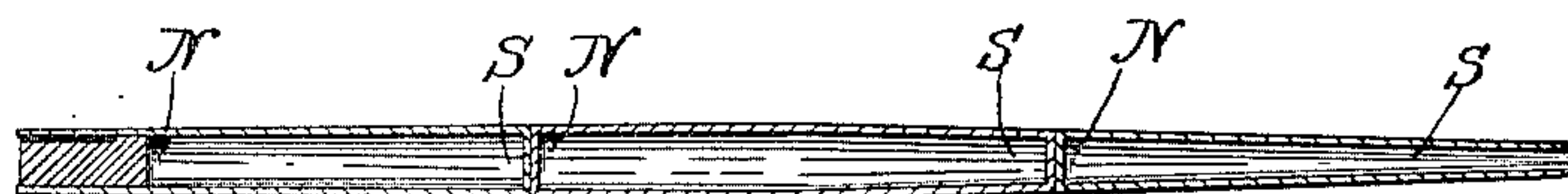


FIG. 3.



WITNESSES:

A. D. Harrison.

Leaving: W. H. H. H.

INVENTOR:

E. A. Hill

by night Brown & H. H. H.

Atty.

# UNITED STATES PATENT OFFICE.

EDWIN A. HILL, OF READING, MASSACHUSETTS.

## MAGNETIC PEN-HOLDER.

SPECIFICATION forming part of Letters Patent No. 424,786, dated April 1, 1890.

Application filed February 13, 1890. Serial No. 340,249. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN A. HILL, of Reading, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Magnetic Pen-Holders, of which the following is a specification.

This invention has for its object to provide a pen-holder adapted to cure and prevent the affection known as "writer's cramp;" and it consists in a metallic pen-holder formed as a permanent magnet or as two or more permanent magnets. I have found that by the use of a magnetic pen-holder of this character, owing to the action of the magnetic currents from the poles of the magnet or magnets forming the pen-holder on the muscles of the hand which holds it, the user cannot experience writer's cramp to any appreciable extent.

In the accompanying drawings, forming a part of this specification, Figure 1 represents a view of a hand holding one of my magnetic pen-holders, the pen-holder being in one piece and consisting of two permanent magnets. Fig. 2 represents a longitudinal section of a pen-holder embodying my invention, made in two sections, each of which is a permanent magnet. Fig. 3 represents a longitudinal section of a pen-holder, showing it constructed of three sections, each being a permanent magnet.

The same letters of reference indicate the same parts in all the figures.

In carrying out my invention I construct a pen-holder of specially-prepared steel, and by any suitable process I magnetize the same, so that it will become a permanent magnet. I prefer to make the pen-holder hollow for the sake of lightness, and it may be made by cutting a section of suitable length from a piece of tubing of steel prepared for the purpose; or the hollow form may be imparted by boring out a solid rod or spindle; or the prepared steel may be cast on a suitable core or cut from sheet metal and turned and butt-welded or formed in any suitable manner.

In Fig. 1 I have shown the stock or body of the pen-holder as made in one piece and having four poles, the holder being formed into two permanent magnets. It will be seen that the natural and proper position of the hand in holding the pen-holder brings the points of

the fingers over one pole of one of the magnets, while the base of the forefinger is resting against a pole of the other magnet, the thumb meanwhile resting on a pole of the magnet on which the points of the fingers rest. This position, as will be readily seen, induces a magnetic current between the thumb and fingers. By this current the magnetism inherent in the human frame is intensified, and by its well-known energizing and curative power it prevents and cures the affection of the muscles of the hand known as "scrivener's palsy" or "writer's cramp."

The pen-holder may also be made in one piece, as shown in Fig. 1, with the difference that the whole holder be formed into one permanent magnet. In this case a magnetic current will be set up along the thumb and fingers from the points to the bases thereof.

Fig. 2 shows the stock made in two sections, which are secured together at their meeting ends by any suitable means, each section being a permanent magnet, having poles N S. Fig. 3 shows the stock made in three sections, each being a permanent magnet having two poles. In these two forms the magnetic current is induced in the same way as before described, the current always passing through the fingers or hand when both poles of the magnet are brought in contact therewith.

Various other modifications may be made in the form and construction of the pen-holder without departing from the spirit of my invention, the object of the same being the induction of magnetic currents through the muscles of the hand, thereby, by the well-known curative and potent properties possessed by magnetism, freeing said muscles from liability to cramp.

In my experiments I have found that the best results are produced by a pen-holder made in a single piece, having four poles, as shown in Fig. 1, two of said poles being near one end and two near the other end. This arrangement is believed by me to render the pen-holder more powerful. It is from the poles that the magnetic currents are sent out. A magnet six inches, more or less, in length, having one pole at each end, will do only one-half the service that it would with four poles.

Any suitable device may be employed at



one end of the pen-holder to detachably hold a pen, my invention not being limited to any particular device.

My invention may also be applied to fountain-pens.

I claim—

1. A magnetized pen-holder having two or more positive and two or more negative poles, as set forth.

2. The metallic pen-holder having a plurality of sections, each being a permanent magnet, as set forth.

3. The hollow or tubular metal pen-holder, magnetized and having poles, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 8th day of February, A. D. 1890.

EDWIN A. HILL.

Witnesses:

C. F. BROWN,

EWING W. HAMLEN.