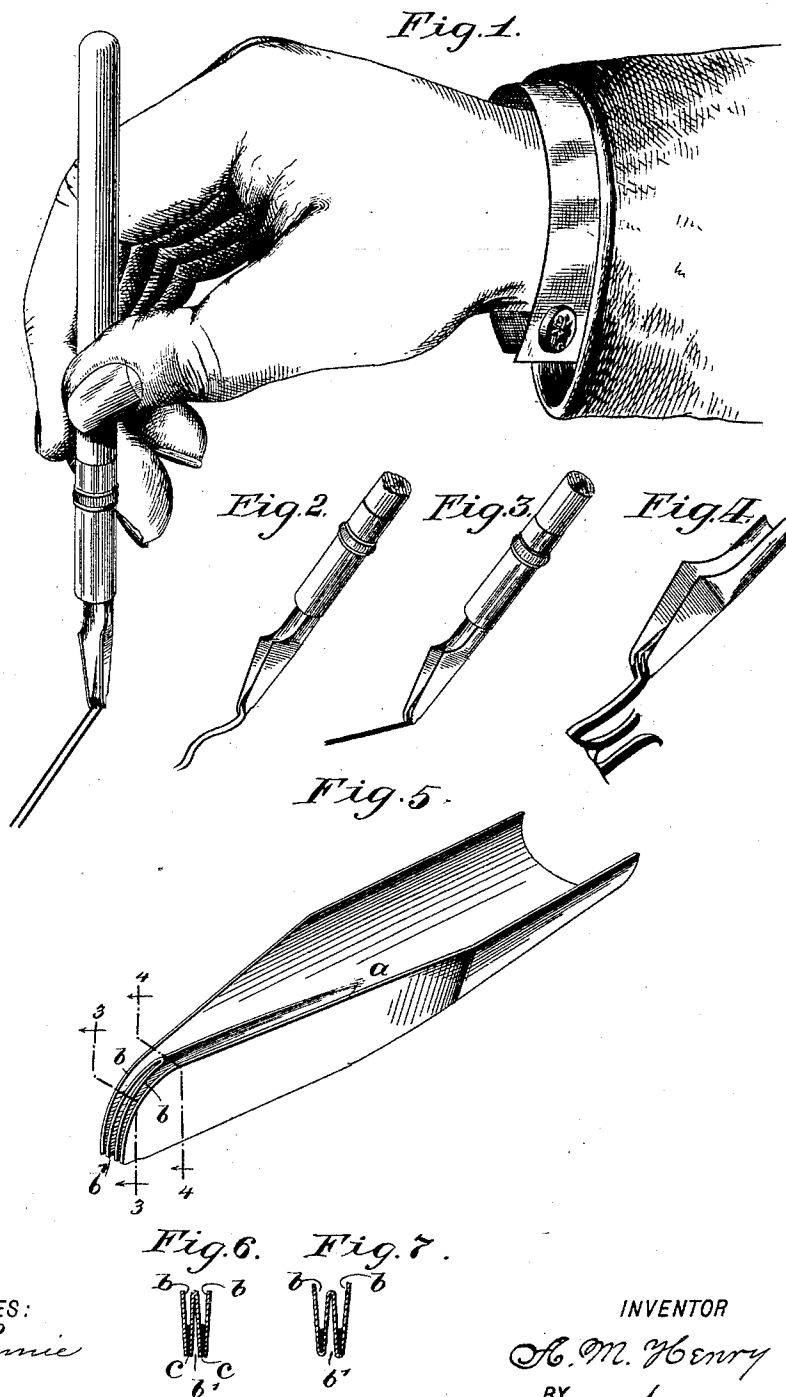


(No Model.)

A. M. HENRY.
PEN.

No. 519,953.

Patented May 15, 1894.



WITNESSES:

John A. Hennie
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UNITED STATES PATENT OFFICE.

ADDIS MORGAN HENRY, OF WHITE SULPHUR SPRINGS, MONTANA.

PEN.

SPECIFICATION forming part of Letters Patent No. 519,953, dated May 15, 1894.

Application filed July 12, 1893. Serial No. 480,238. (No model.)

To all whom it may concern:

Be it known that I, ADDIS MORGAN HENRY, of White Sulphur Springs, in the county of Meagher and State of Montana, have invented a new and Improved Pen, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figures 1, 2 and 3 are perspective views showing my improved pen in use for different purposes. Fig. 4 is a perspective view of a three point pen, two points being used for the body and the third point for a shading line in lettering. Fig. 5 is an enlarged perspective view of the pen. Fig. 6 is a transverse section on line 3—3 in Fig. 5; and Fig. 7 is a transverse section on line 4—4 in Fig. 5.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to provide a simple and effective ruling pen for simultaneously producing a series of parallel lines, or for making a single heavy line, the pen to be used for ruling, writing and marking.

My invention consists in a pen formed of a sheet of metal provided with deep corrugations or folds at the point, the folds being cut through adjoining the point, all as will be hereinafter more fully described.

In carrying out my invention, I take a piece of thin sheet metal, and from a point *a* at or near the middle of length thereof, I form a series of deep corrugations *b, b'*, by folding the sheet metal back and forth upon itself by means of suitable dies. At the point of the pen the metal is cut away to form passages *c* for the escape of the ink as the pen is drawn along the paper. The ink is placed in the folds *b* when two parallel lines are to be drawn, and it is retained in the corrugation by capillarity, but when the pen is drawn

along the paper, the action of gravity and the capillary attraction between the paper and the ink is sufficient to cause it to flow out upon the paper as the pen is drawn along in the manner indicated in Figs. 1, 2 and 3. When it is desired to draw a wide solid line, a drop of ink is placed in the corrugation *b'* at the points, which drop of ink unites, or acts as a medium to spread the flow of ink from the points upon the paper, thus forming a single wide line equal in width to the combined width of the points and spaces between them. When it is desired to produce a greater number of lines, or a wider solid line, the number of corrugations is increased, each corrugation *b* representing an additional line.

My improved pen can be shaped like ordinary pens at the heel so that it will fit a common penholder, or of any other desired form to conform to the work for which it is intended. The pen is preferably made of a non-oxidizable spring material, though any material capable of being corrugated as set forth will answer the purpose, more particular reference being made to the manner of forming a series of points attached to a single pen body.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

As a new article of manufacture a pen formed of a piece of sheet metal bent into W-shape in cross section to form longitudinal corrugations *b b'* and having the metal at the point cut away to form passages *c*, as set forth.

ADDIS MORGAN HENRY.

Witnesses:

R. MANGER,
WALTER H. PECKHAM.