

(No Model.)

L. H. ROGERS.
Stylus for Writing on Manifold Paper.

No. 235,898.

Patented Dec. 28, 1880.

Fig. 1.

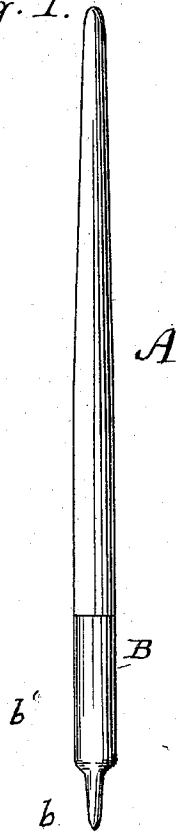


Fig. 2.



Witnesses:
E. E. Massow
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UNITED STATES PATENT OFFICE.

LEBBEUS H. ROGERS, OF NEW YORK, N. Y.

STYLUS FOR WRITING ON MANIFOLD PAPER.

SPECIFICATION forming part of Letters Patent No. 235,898, dated December 28, 1880.

Application filed July 28, 1880. (No model.)

To all whom it may concern:

Be it known that I, **LEBBEUS H. ROGERS**, of New York city, in the county and State of New York, have invented a new and useful Stylus or Point for Writing on Manifold Paper, and method of making the same, which invention is fully set forth in the following specification.

The necessary qualifications of a stylus or writing-point—the article to which this invention has reference—are that it should be of a hard substance tapered to a point, and have the point very smooth and free from flaws and rough places, so that it will, in writing, glide smoothly over and not tear the paper. The substances heretofore mostly used for the purpose have been ivory, agate, rubber, glass, and hard metal. The articles themselves are generally made in three parts—namely, the handle, of wood, a metal tube like a pen-holder or ferrule at the end of the handle, and the writing-point proper, fastened into and held by the metal tube. Of the materials used, glass and agate break too easily when handled roughly or when they chance to fall, rubber wears rapidly at the point, and ivory is too brittle at the junction with the support or handle. Metal is the most substantial and satisfactory, and of this, preferably steel, the improved stylus or point is made.

In writing on manifold paper considerable pressure is brought to bear, and the point, when inserted into a tube or ferrule on a handle according to the manner heretofore adopted, soon wears loose inside the ferrule or tube, or the latter splits, and the stylus becomes useless. This difficulty is entirely overcome by the present invention. The stylus is very solid and durable, and not liable to get out of order or to become broken or worn, either accidentally or in use. It is, moreover, of a neat appearance, and can be economically manufactured.

The invention consists in a stylus or instrument for writing on manifold paper, comprising a cylinder of uniform diameter, so as to be readily grasped by the fingers in writing, bored longitudinally from one end to receive a handle, and having at the other end a blunt-

ed writing-point of smaller diameter than the cylindrical part, and projecting therefrom so as to form a sort of shoulder, the writing-point and its supporting-cylinder being made in one piece of metal. A stylus or point of this description can readily be made by turning and boring suitable lengths of wire.

In the accompanying drawings, which form a part of this specification, Figure 1 is a view in elevation, and Fig. 2 a view in longitudinal section, of a stylus constructed in accordance with the invention.

A represents the handle, and B the attaching tube or support for the point, and the point itself made in one piece of metal. The point itself is lettered *b* and its support *b'*.

In order to make the part B, short lengths of steel wire of the right size are turned to give them a proper shape on the outside and at the extremity of the point, and then bored and polished, the operations being performed in a lathe. The hole bored is of sufficient size to contain the end of the handle, which may be of other suitable material, as well as of wood, and yet to leave the required strength to the walls of the opening. It extends part way through the support, as shown.

In turning the wire the main portion of its length is made or left of uniform diameter to form the supporting-cylinder *b'*, and at a suitable distance from the end it is turned down to form the point proper, *b*, leaving a shoulder, substantially as shown. The extremity is made somewhat blunt, as usual in writing-points, so that it moves easily over the paper without tearing it. The supporting-cylinder, being of uniform diameter, can be easily held or grasped by the fingers in writing, and the point itself is of such length that it may be as close to the extremity as would be desirable. The cylinder or support *b'* and the point *b*, made integral with it, are afterward nickel plated, and, if desired, can be embossed or otherwise ornamented.

While steel is, on account of its hardness and strength, the metal best adapted to the purpose, the invention is not limited thereto.

What is claimed as new, and sought to be secured by Letters Patent, is—

A stylus or writing-point comprising a metal cylinder of uniform diameter, bored longitudinally from one end to receive a handle, and having projecting from the other end a
 5 blunted metallic writing-point of smaller diameter than said cylinder, and made integral or in one piece with it, a shoulder being formed at the junction of the two parts, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

LEBBEUS H. ROGERS.

Witnesses:
 J. C. SAXTON,
 WM. R. BIDDLE.