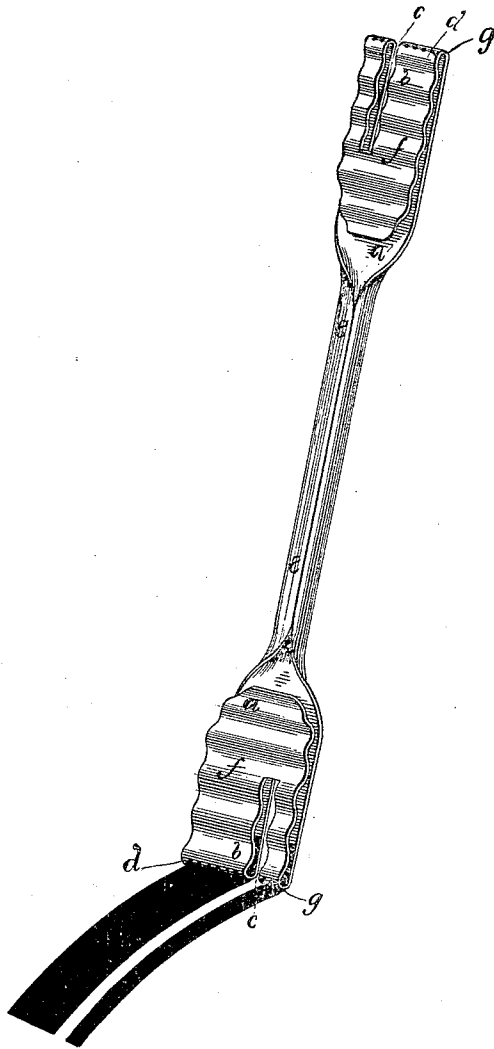


(No Model.)

H. R. FULLER.
PRINTING PEN.

No. 510,966.

Patented Dec. 19, 1893.



Witnesses.

H. K. Gant.

John D. Lamb.

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UNITED STATES PATENT OFFICE.

HARVEY R. FULLER, OF PAYNE, OHIO.

PRINTING-PEN.

SPECIFICATION forming part of Letters Patent No. 510,966, dated December 19, 1893.

Application filed October 27, 1892. Serial No. 450,118. (No model.)

To all whom it may concern:

Be it known that I, HARVEY R. FULLER, of Payne, county of Paulding, State of Ohio, have invented a certain new and useful Improvement in Printing-Pens, of which the following is a full, clear, and exact description.

My invention relates to that class of pens used in lettering, or "printing penmanship" and has for its object the production of shaded or unshaded lines of one or more colors at a single stroke of the pen. This pen is specially adapted for the production of the letters in system penmanship on which Letters Patent were granted me June 28, 1892, No. 477,653, and it does the same style of work as lead and crayon pencils on which Letters Patent were granted me December 29, 1891, No. 466,300.

In the construction of my pen a metal tube forms the holder which has flattened ends that are formed into two pens of different widths and which with the holder are constructed of a single piece. In some instances this particular holder may be dispensed with and the pen supported in an ordinary holder or by other means. The pen part consists of a blade turned over to form an upper and lower portion having the same general direction and between which is the ink space. This blade is corrugated to assist in holding the ink and retarding its flow outward. The parts of the pen proper are united in the turn that forms the point which is perforated or slitted along its entire marking surface, and the lower part in some cases is united to the upper part at its inner end or at its side. The pen as described is flexible but it may be rigid if desired the work executed with it however in either case being the same. The pen is provided with a continuous open slot or slots parallel with the side edge of the same thus dividing it into two or more parts. It may be stated in this connection that these slots may be dispensed with when only unshaded work is desired. In all cases the points of the pen are perforated or slitted.

Referring to the drawing *a* represents the pen blade; *b*, the point of the pen; *c*, the continuous open slot in the blade is formed near the edge thereof but which may be placed at

any other point desired along the blade; *d*, the perforations or slits in the point of the pen through which the ink flows; *e*, the holder. *f* represents the corrugations in the blade; *g* the rounded corner or corners of the pen.

In operating my pen I dip it into the ink or color employed and then place the marking surface of pen squarely on the object to be marked holding the pen firmly but without pressure and moving the same in any desired direction there being no sharp corners on the pen to hinder such movement. I secure the best results by preparing an inkstand with thin vertical sides or outer walls, having thin vertical partitions that divide the stand into two or more cells so as to receive the desired color or ink. I then dip the pen into the inkstand allowing one portion to pass down on the outside of the stand whereby one part only receives ink; this will give unshaded work; but when the pen is dipped entirely into the cell both parts receiving ink it will produce shaded work in one color. I also dip the pen so that the open slot receives the thin partition, thus receiving two colors which will give shaded work in the two colors. I use ordinary ink or fluid water—colored with dyes or pignon paint, and avoiding using fluid when too thick or heavy.

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

1. In a printing pen the blade *a*, formed with the corrugations *f* rounded corners *g*, point *b*, perforated or slitted along its entire marking surface through which the ink flows outward substantially as described and shown.

2. In a printing pen the blade *a*, slot or slots *c*, corrugations *f*, and holder *e*, substantially as described and set forth.

3. In a printing pen the combination of blade *a*, point *b*, slot or slots *c*, perforations or slits *d*, holder *e*, corrugations *f*, and rounded corners *g*, as described shown and for the purpose set forth.

H. R. FULLER.

Witnesses:

H. K. GANT,
BELLE FULLER.