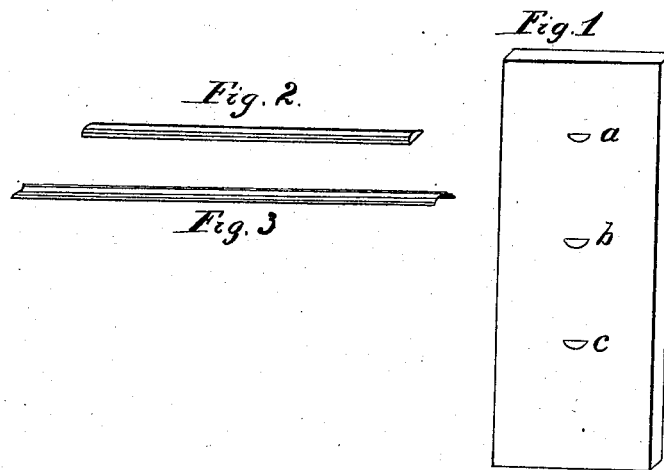


A. G. BAGLEY.  
METALLIC PEN.

No. 4,991.

Patented Feb. 27, 1847.



*A. G. Bagley*

# UNITED STATES PATENT OFFICE.

A. G. BAGLEY, OF NEW YORK, N. Y.

## FORMING METALLIC PEN-BARRELS BY DRAWING.

Specification of Letters Patent No. 4,991, dated February 27, 1847.

*To all whom it may concern:*

Be it known that I, ALBERT G. BAGLEY, of the city and State of New York, have invented an Improved Mode of Manufacturing Metallic Pens; and I do hereby declare the following is a full and exact description of the same, reference being had to the annexed drawings, which make a part of this specification.

10 The mode which has hitherto been adopted in the manufacture of metallic pens is to use material in a flat or sheet form and to cut it into pieces of dimensions needed for the pen. These flat pieces of metal are  
15 rolled out, and then placed upon a die and pressed by a stamper so as to give them the barrel form of a pen.

In my improvement I use thin strips of metal but instead of cutting them into the  
20 lengths required for pens and then rolling the metal out and producing the barrel form by pressing the sheet metal in a die, I produce the required tenuity and barrel form by one operation, viz.: by placing long strips  
25 of sheet metal upon a mandrel and drawing them through a suitable sized aperture

in a draw plate. Hence I save labor and time by my improvement. Afterward I place the barrel shaped metal into a die and cut it into lengths and the shape of the pen 30 by the same operation. The pens are afterward pointed in the usual way.

Figure 1 is a view of the mandrel plate. *a*, *b*, *c*, are apertures through which the sheet metal is drawn, the dimensions of the 35 apertures being suited for different sizes of pens. Fig. 2, is the mandrel upon which the sheet metal is placed previous to drawing the latter through the aperture of the mandrel plate. Fig. 3, is the barrel shaped 40 form of the metal after being drawn through the mandrel plate.

What I claim as my invention, and desire to secure by Letters Patent is—

The mode of producing the barrel form of 45 metallic pens by the use of a mandrel and plates as herein set forth.

A. G. BAGLEY.

Witnesses:

LEWIS BLEIDORN,  
E. P. CLARK,