

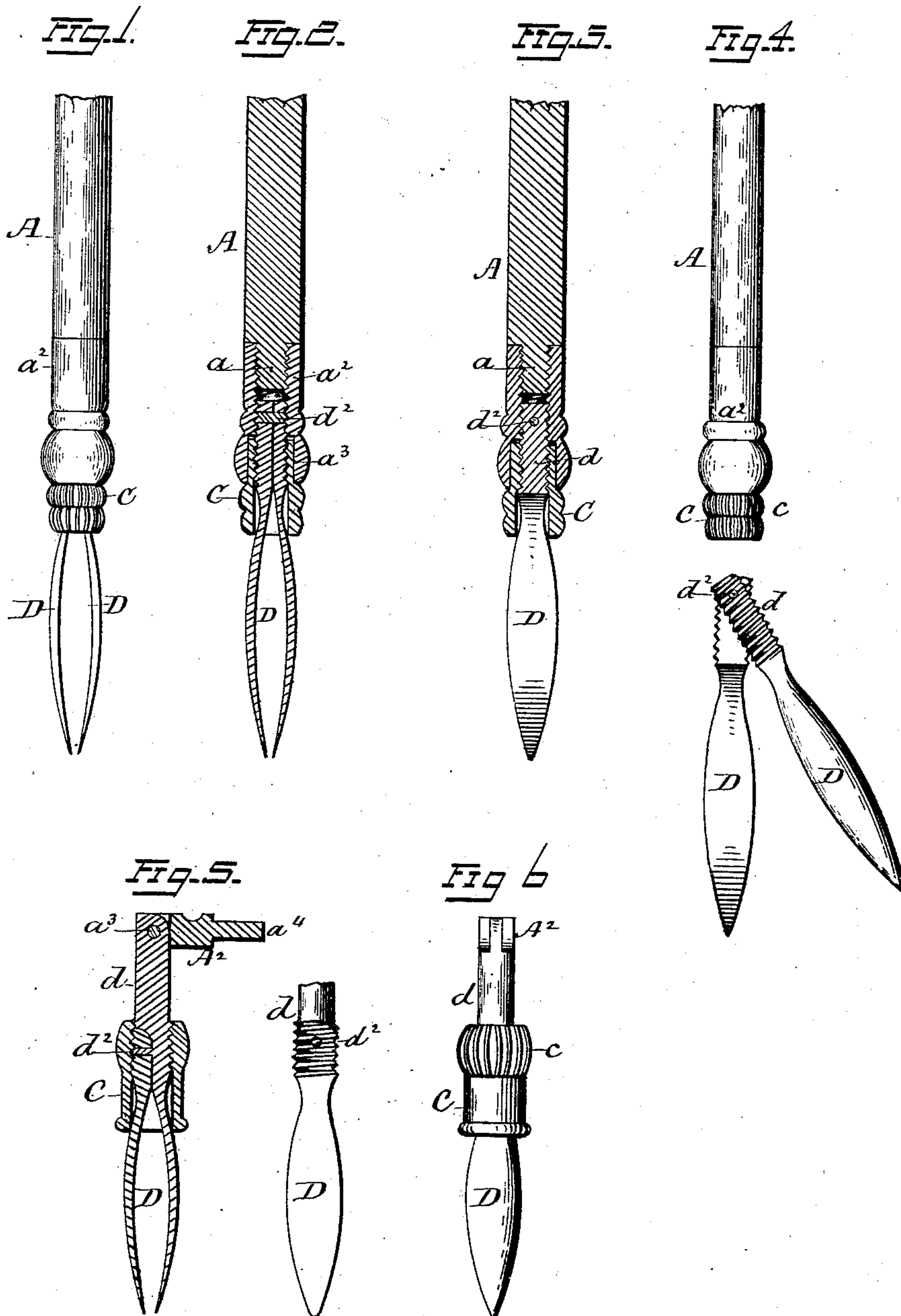
(No Model.)

C. M. BURNS, Jr.

DRAWING PEN.

No. 333,594.

Patented Jan. 5, 1886.



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES M. BURNS, JR., OF PHILADELPHIA, PENNSYLVANIA.

DRAWING-PEN.

SPECIFICATION forming part of Letters Patent No. 333,594, dated January 5, 1886.

Application filed November 3, 1885. Serial No. 181,754. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. BURNS, Jr., a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Drawing-Pens, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in drawing or ruling pens; and the objects of my improvement are, in the construction of drawing-pens, to dispense with the usual perforations and the thumb-screw passing through the blades of the pen. As said blades are often made of very thin metal, the number of screw-threads cut in the perforations are very limited and liable to become worn out in a short time.

The objects of my invention are also to remedy these defects and to produce a simple, strong, and inexpensive pen of good appearance. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a drawing-pen constructed in accordance with my invention. Figs. 2 and 3 are longitudinal central sections of the same. Fig. 4 is a side view showing the blades open and disconnected from the handle. Fig. 5 is a longitudinal central section of a pen constructed in accordance with my invention, but carrying a hinged arm for connection with the branches of a pair of compasses. Fig. 6 is a side view of the same.

Similar letters refer to similar parts throughout the several views.

A represents a handle of suitable length, of hard wood, ivory, or other suitable material, having a screw-threaded tenon, a , upon which is placed an internally screw-threaded ferrule, a^2 , the lower end of which is preferably recessed at a^3 to receive the upper end of a nut, C. The upper half of this nut is internally screw-threaded to receive the corresponding screw-thread cut upon the shank d of the blades D of the pen. To facilitate the occasional cleaning and sharpening of the blades, they are connected at their shank by a pivot-pin, d^2 ; but they may also be perma-

nently united at that point, if desired. The shank of the blades extends sufficiently above the nut C to be retained into engagement either with the handle A or its ferrule to form a straight hand-pen, or with an arm, A^2 , to form a compass-pen. In the latter pen the arm A^2 is pivoted at one end at a^3 to the upper end of the shank d , while at the opposite end it is provided with a tenon, a^4 , as usual, for its insertion into one of the branches of a pair of compasses.

The blades D are made of spring metal, and are slightly bowed or curved, as shown in Figs. 1, 2, and 5, at a suitable distance apart, so that when the nut C is run down upon their screw-threaded shank the blades are made to approach toward each other, and the space between the nibs or points of the blades, or the size of the lines made therewith, is adjusted with great precision. A portion of the periphery of the nut C is milled or roughened, as at c , to facilitate the rotation of said nut.

Having now fully described my invention, I claim—

1. A drawing-pen consisting of two blades having their upper ends in close contact and united together, forming a screw-threaded shank, and the balance of their length slightly bowed, in combination with a nut engaging with said screw-threaded shank formed integral with the blades and having a collar engaging with the blades, substantially as and for the purpose described.

2. The combination of two drawing-pen blades pivotally secured together at their shank end, and having said shank formed integral with the blades, and exteriorly screw-threaded and secured to a handle, with a nut mounted upon said screw-threaded shank of the blades, and having a collar engaging with the blades and adapted to force the points of the blades together, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES M. BURNS, JR.

Witnesses:

HOWARD P. MILLER,
OSCAR R. MEYERS.