

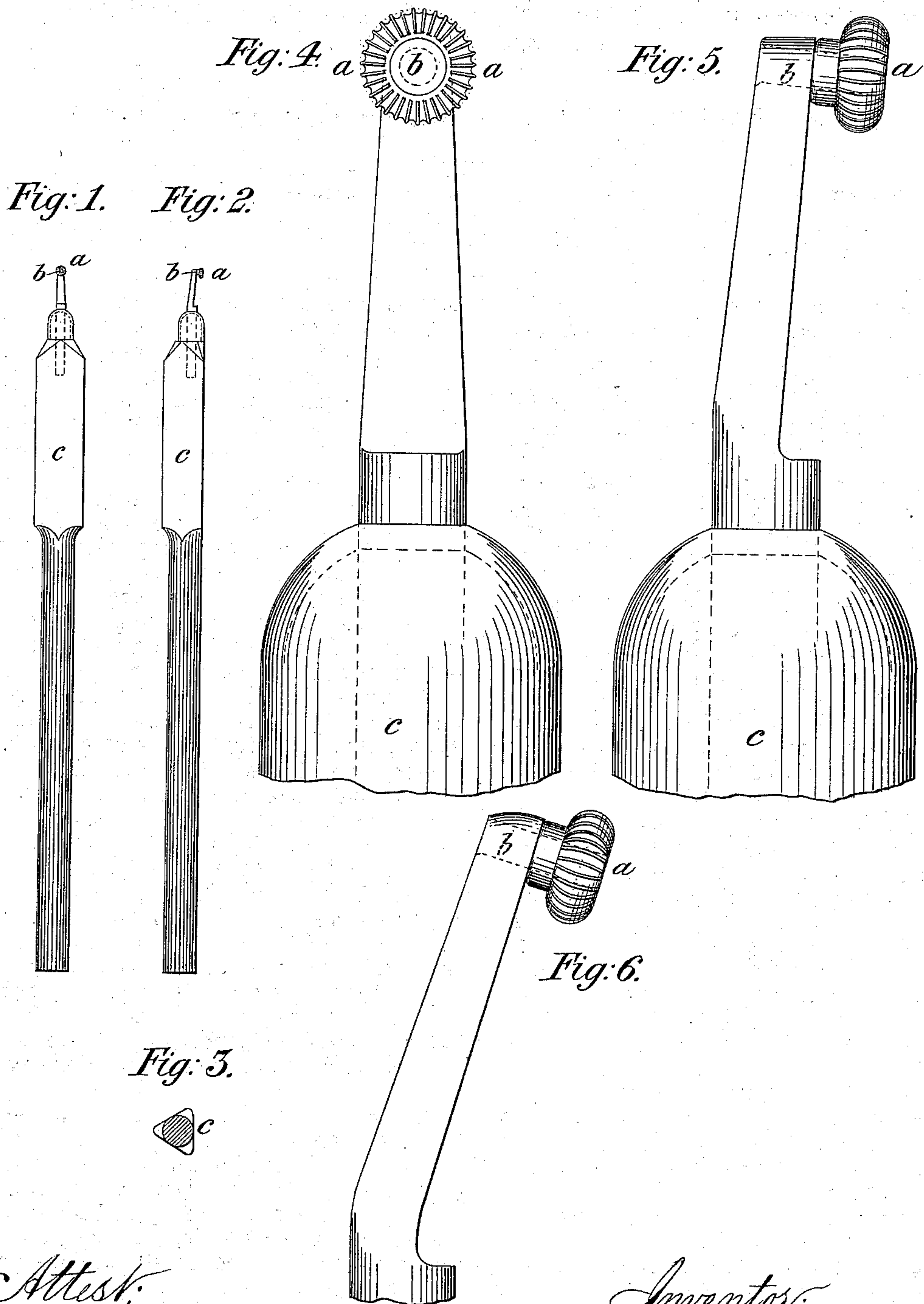
(No Model.)

D. GESTETNER.

PERFORATING INSTRUMENT FOR PRODUCING STENCILS.

No. 268,009.

Patented Nov. 28, 1882.



Attest:
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UNITED STATES PATENT OFFICE.

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PERFORATING-INSTRUMENT FOR PRODUCING STENCILS.

SPECIFICATION forming part of Letters Patent No. 268,009, dated November 28, 1882.

Application filed November 21, 1881. (No model.) Patented in England June 3, 1881, No. 2,450; in France July 19, 1881, and in Belgium July 20, 1881.

To all whom it may concern:

Be it known that I, DAVID GESTETNER, a subject of the King of Hungary, residing at South Street, Thurloe Square, in the county of Middlesex, England, have invented certain new and useful Improvements in Perforating-Instruments for Producing Stencils to be employed in the reproduction of writings, drawings, and other delineations, (for which I have received Letters Patent in England, No. 2,450, dated 3d June, 1881,) of which the following is a specification.

The invention has for its object improvements in perforating-instruments for producing stencils to be employed in the reproduction of writings, drawings, and other delineations. For this purpose I employ a toothed, notched, or roughened wheel of small diameter, having the edge or periphery thereof of a curved or semicircular form, and provided with teeth or notches conforming with the shape of said periphery, and I mount this wheel upon an axis carried by a holder or handle, similar to a pencil or pen; or the axis may be fixed to the wheel and revolve in the holder. I in some cases incline the axis of the perforating-wheel in order that the instrument, when in use, may be held by the hand in an inclined position, in a similar manner to an ordinary pen, and yet allow of the perforating-wheel remaining upright; but I do not confine myself to this arrangement.

By the aid of this instrument lines of minute perforations are produced by writing or drawing therewith upon thin waxed paper or other suitable material placed upon any even surface; but I have found that by employing a surface of tinned metal for this purpose I obtain good results. This sheet of perforated paper or other material forms the stencil, and may be employed to reproduce the writing, drawing, or other delineation in any desired manner.

In order that my said invention may be more clearly understood and readily carried into effect, I will proceed, aided by the accompanying drawings, more fully to describe the same.

In the drawings, Figure 1 is a front view, and Fig. 2 is a side or edge view, of a perforat-

ing-instrument constructed according to my invention; and Fig. 3 represents a sectional end view of the handle thereof. The above figures are drawn to the actual size of the perforator. Figs. 4 and 5 represent respectively a front view and an edge or side view of the perforator shown at Figs. 1 and 2, drawn to an enlarged scale; and Fig. 6 is an enlarged edge or side view of a perforator, showing the axis of the perforating-wheel inclined.

a represents the perforating-wheel, which I form with an edge divided or cut into a number of teeth with only very small spaces between them. In the perforating-wheel shown the edge of the wheel is formed curved or semicircular, or thereabout, and the teeth extend from or near the axis on one side of the wheel to or near the axis on the other side thereof, thus enabling the perforating to be properly effected, at whatever angle the pen may be held. This wheel is mounted upon an axis, *b*, which may be at right angles to the holder, as shown at Figs. 1, 2, 4, and 5, or inclined thereto, as shown at Fig. 6. The axis *b* is, as shown, preferably supported on only one side thereof, thereby facilitating the use of very small perforating-wheels and enabling the perforator readily to produce curves and other lines without danger of tearing the paper or other material employed for the stencil. Instead of the wheel revolving on the axis, the axis may be fixed to the wheel and may revolve in the holder.

In Figs. 1, 2, and 3 I have shown the handle *c* formed triangular in section at the lower part thereof to facilitate holding the perforator in proper position for use. The shape of the teeth of the perforating-wheel may be different from that shown in the drawings, provided that in running over the paper it will produce perforations therein.

By the aid of this perforator lines of minute perforations are produced by writing or drawing therewith upon thin waxed paper or other suitable material placed upon a hard even surface, by which means stencils of writings, drawings, or other delineations can be readily produced, such stencils being used in the manner

now well understood to obtain numerous reproductions of said writings, drawings, or other delineations.

5 Having thus described the nature of my said invention and the mode in which I carry the same into effect, I would have it understood that what I claim is—

10 In a perforating-instrument, the notched, toothed, or roughened wheel *a*, having the edge or periphery thereof of a curved or semicircular form, and provided with teeth or notches

conforming with the shape of the said periphery, in combination with a suitable handle and an axis supporting said wheel, as and for the purpose set forth.

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