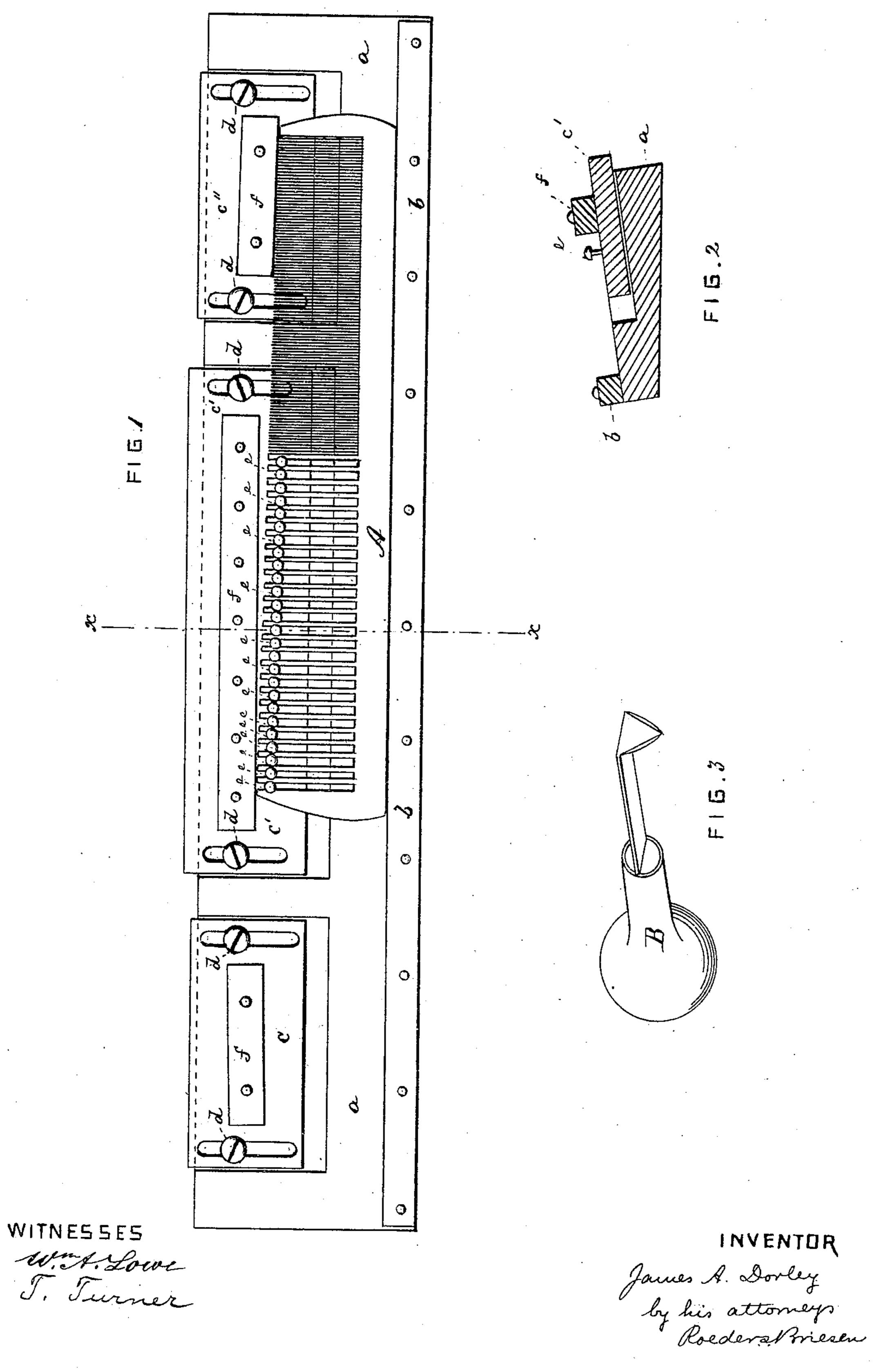
J. A. DORLEY.

COMB GRAILLE.

No. 356,223.

Patented Jan. 18, 1887.



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United States Patent Office.

JAMES A. DORLEY, OF BUTLER, NEW JERSEY.

COMB-GRAILLE.

SPECIFICATION forming part of Letters Patent No. 356,223, dated January 18, 1887.

Application filed April 14, 1886. Serial No. 198,882. (No model.)

To all whom it may concern:

Be it known that I, James A. Dorley, of Butler, Morris county, State of New Jersey, have invented a new and Improved Comb-5 Graille, of which the following specification is a full, clear, and exact description.

This invention relates to an apparatus for widening the distance between the teeth of a comb or for filing the comb-teeth; and it consists in the element of improvement hereinafter more fully set out.

In the accompanying drawings, Figure 1 is a top view of my apparatus. Fig. 2 is a section on line $x \, x$, Fig. 1, and Fig. 3 a perspec-

15 tive view of the cutting-tool.

The letter a represents a base plate or block, from which projects upwardly a stop, b, extending along one edge of the base-plate. The plate a is provided with three recesses for the reception of three slides, cc'c', which may be moved toward or away from the stop b. Each of the slides cc'c' may be clamped in position by screws d, passing through slots in the slides and engaging the base plate. From the central slide, c', there project upwardly a series of pins, e, placed at equal distances apart and arranged in a straight line. Each of the slides is provided with a stop or bar, f, as shown.

In use a comb, A, is placed upon base-plate a, with its back resting against the stop b and with its larger teeth separated by the pins e. One forward end of the comb rests against the stop f of slide c', and the other forward end rests against the stop f of slide c'', such slides being clamped in such a position as to properly space the comb. A tool, B, is now employed for cutting the teeth. This tool has a triangular cutting blade provided with two cutting-edges, as shown. The cutting-blade

being drawn between every pair of consecu-40 tive teeth to be cut, will at the same time cut one edge of each tooth. After one side of the comb has been finished the comb is reversed, so that one end is engaged by slide c in place of being engaged by slide c''. The cutting operation is then repeated, after which the comb is finished.

I claim as my invention—

. 1. The combination of base-plate a and slides c' c'' with stop b, projecting upwardly 50 from and extending along plate a, and with a series of equally-spaced pins, e, adapted to enter between the comb-teeth and projecting upwardly from slide c', which is adjustably secured to plate a, substantially as specified. 55

2. The combination of base-plate a with stop b, projecting upwardly from such plate and adapted to engage the back of a comb, and with a slide, c', fitted within a recess of plate a, and provided with pins e and a stop, 60 f, and with a slide, c'', the pins adapted to enter between the comb-teeth, and the stop adapted to engage the front of the comb, substantially as specified.

3. The combination of base-plate a with 65 stop b, projecting upwardly from such plate and adapted to engage the back of a comb, and with the slides c c' c'', fitted within recesses of plate a and provided with clamp-screws, the slides c c'', having stops f, adapted to bear 70 against the front of a comb, and the slide c', having stop f and pins e, adapted to enter between the comb-teeth, substantially as specified.

JAMES A. DORLEY.

Witnesses:

WILLIAM J. HUGHES, JAMES J. FITZGERALD.