

(No Model.)

W. W. MOSEMAN.

EVENER OR SHEET STRAIGHTENER FOR THE RECEIVING TABLES OF
PRINTING MACHINES.

No. 345,644.

Patented July 13, 1886.

Fig. 1.

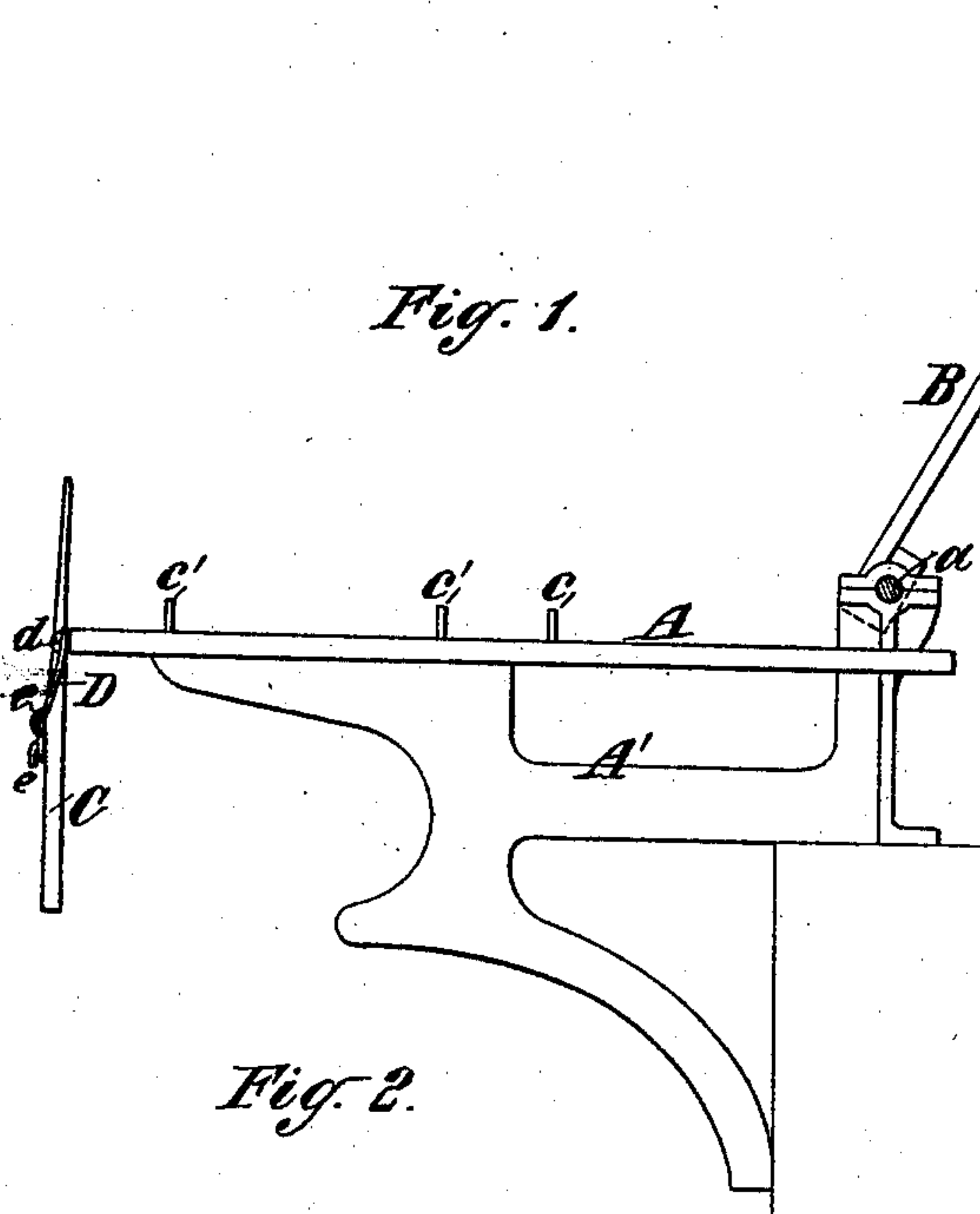


Fig. 3.

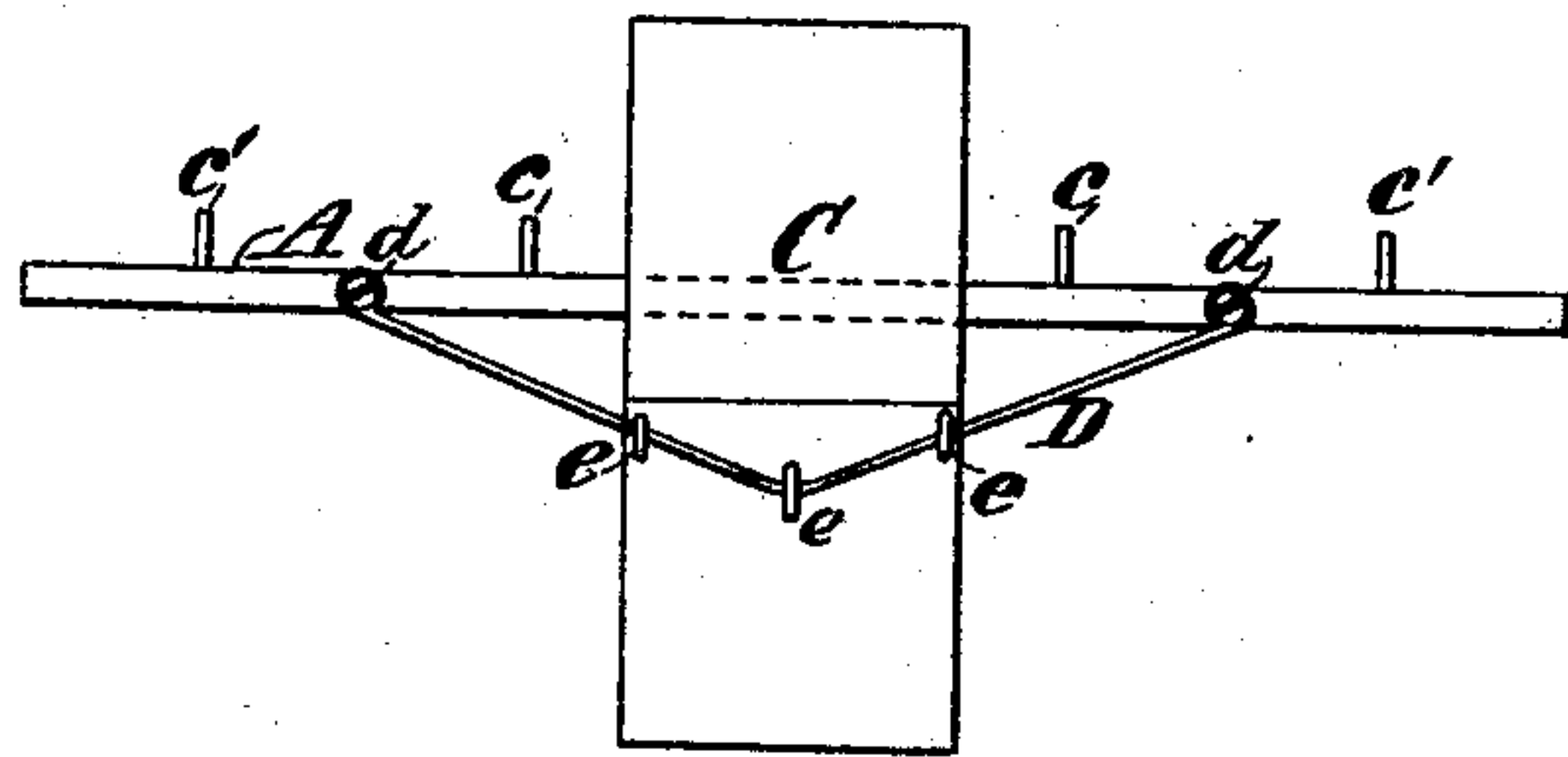


Fig. 2.

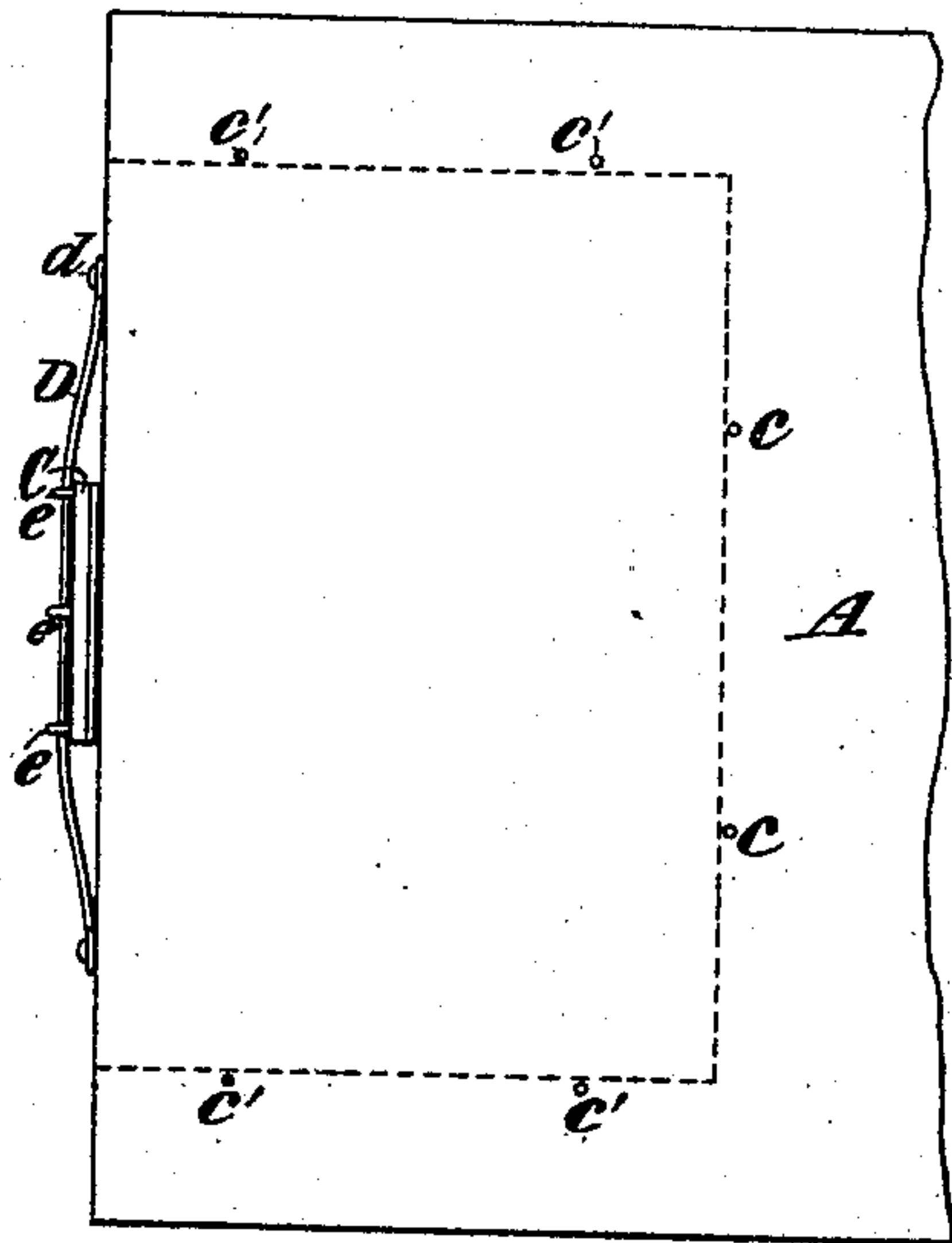


Fig. 4.

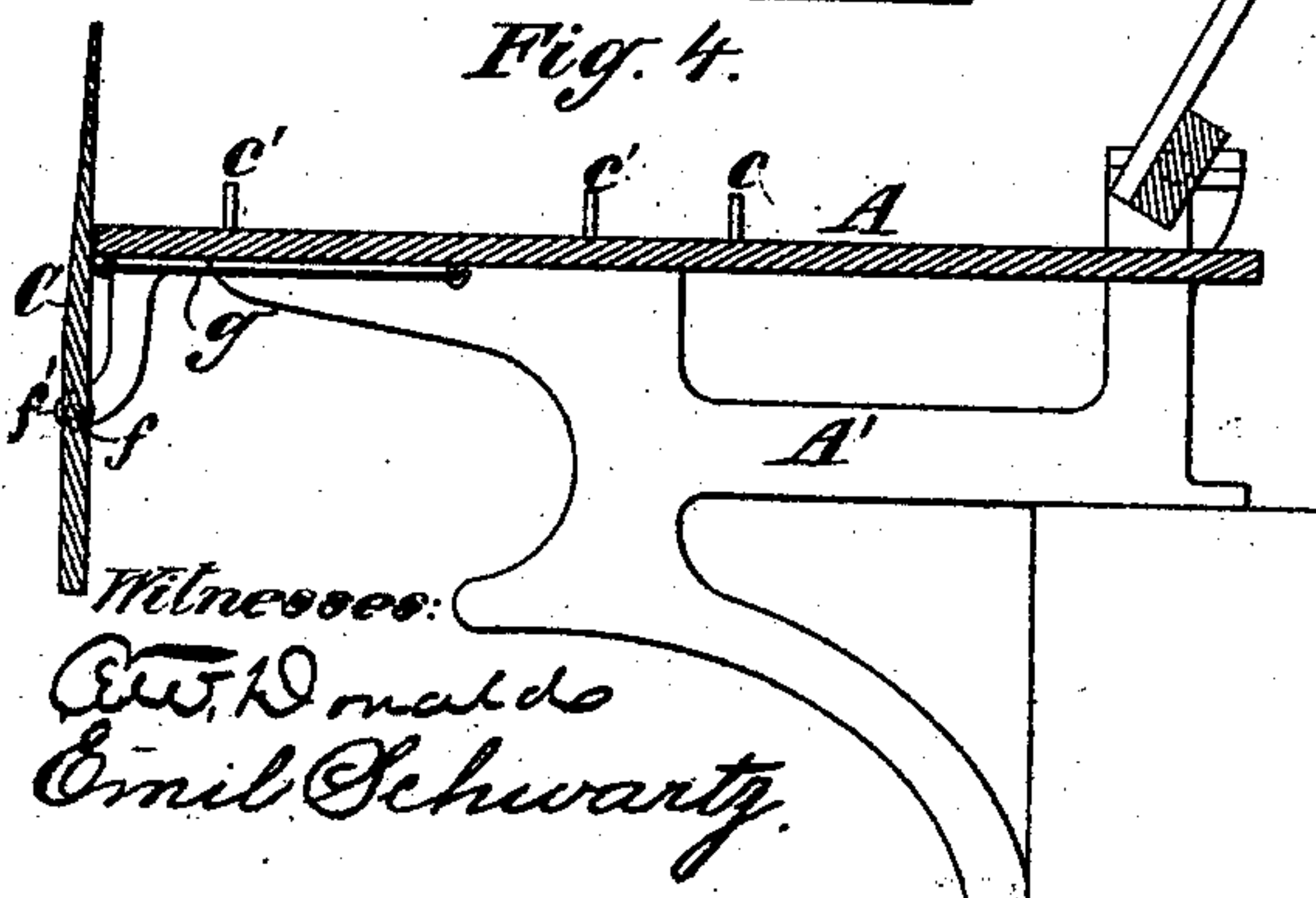
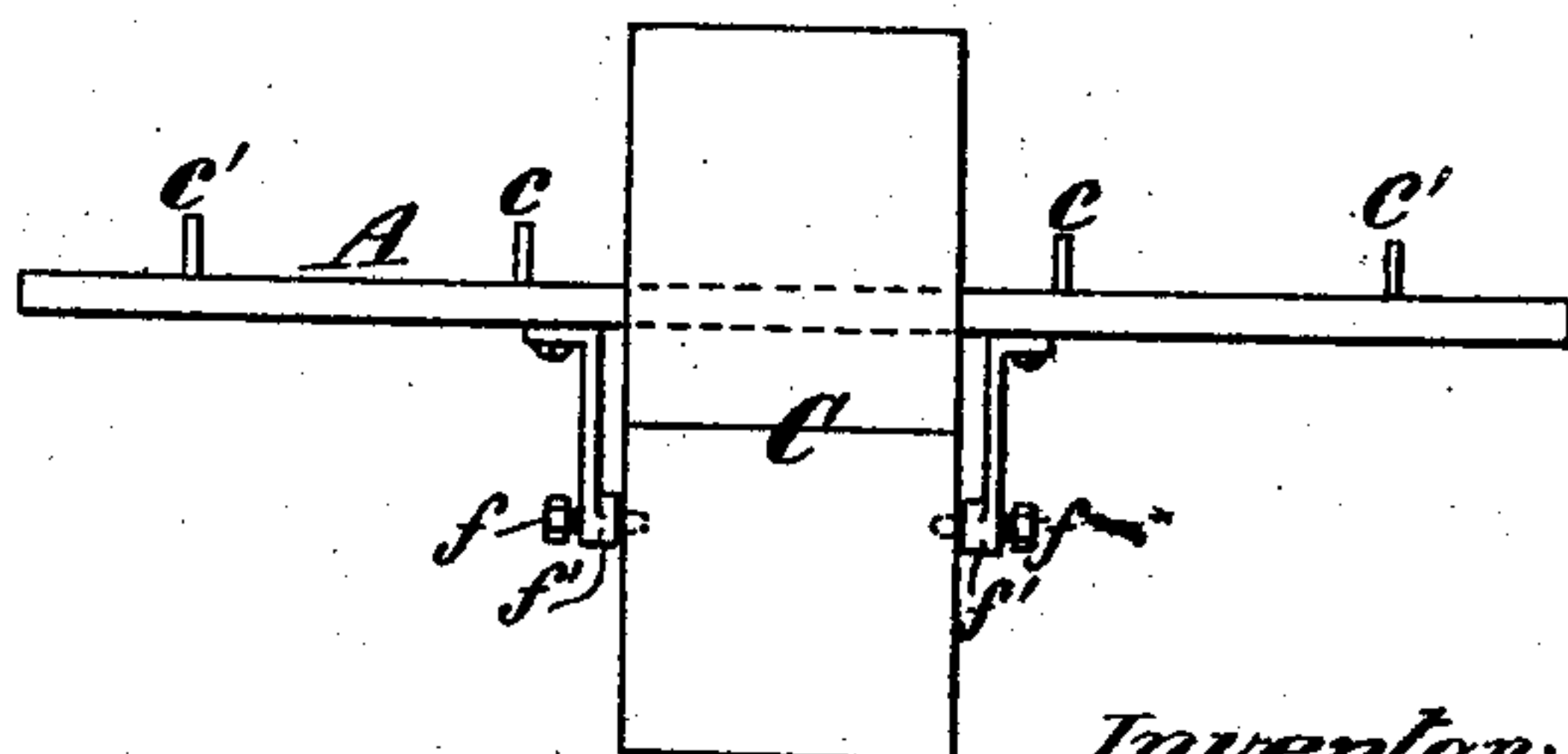


Fig. 5.



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WILLETT W. MOSEMAN, OF BROOKLYN, NEW YORK, ASSIGNOR TO WM. A. STEVENSON, OF SAME PLACE.

EVENER OR SHEET-STRAIGHTENER FOR THE RECEIVING-TABLES OF PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 345,644, dated July 13, 1886.

Application filed August 29, 1884. Serial No. 141,733. (No model.)

To all whom it may concern:

Be it known that I, WILLETT W. MOSEMAN, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Evener or Sheet-Straightener for the Receiving-Tables of Printing-Machines, of which the following is a specification.

My invention relates to presses in which the printed sheets are delivered upon a receiving-table by the swinging movement of a fly. In such presses the printed sheets are not delivered in exactly the same position on the pile, and consequently the outer edges of the sheets will be uneven, or will many of them project beyond the front edge of the pile. The fly produces a considerable blast or current of air when swung over with the sheet upon it; and the object of the invention is to indirectly utilize the force of the air, blast, or current as a means of evening or straightening the outer edges of the sheets as the sheets are delivered one by one by the operation of the fly.

The invention consists in the combination, with a receiving-table provided with gage-pins and a fly-sheet delivery, of an evener or straightening device hung at the outer edge of said table, capable of outward movement by the blast of air produced by the fly, and adapted in its return movement to push the newly-delivered sheet inward in order to bring the outer edge of said sheet even with the edges of the receiving-table and the pile of sheets thereon. The evener or straightening device is preferably made heaviest at the lower end, in order to bring it back quickly when swung outward by the blasts of air, and a spring is applied to hasten its return and render it more powerful, both of which features are included in my invention.

In the accompanying drawings, Figure 1 is a side view of a receiving-table and fly of a press, the table being provided with my improved device. Fig. 2 is a plan thereof, the fly being omitted. Fig. 3 is an end view of the table and device, also omitting the fly; and Figs. 4 and 5 are respectively a side view and end view of a receiving-table having applied to it an evener or straightening device of modified form, also embodying my invention.

Similar letters of reference designate corresponding parts in all the figures.

A designates a receiving-table, which is supported upon a suitable portion, A', of the press-frame; and B' designates a fly, the shaft of which is journaled at *a*, and which may be swung outward by any suitable or well-known mechanism for operating the fly. I have not shown such mechanism, as it forms no part of my invention, and it is only necessary that the printed sheets *b* are delivered by the fly upon the table A in the usual way.

In the table A are fixed gage-pins *c c' c'*, which are usually employed to limit the movement of the delivered sheets both laterally and inward but in a pile of sheets as ordinarily delivered the outer edges of many sheets will project beyond others or beyond the pile. The object to be accomplished is to even the sheets as fast as delivered, so that the outer edges of the sheets shall be uniform and coincident.

C designates the evener or straightening device employed, which consists of a vane or piece of wood or other material suspended at the front or outer edge of the table A, and bearing against the same. This vane or device is so hung that it will swing back or outward by the blasts or currents of air produced by the fly, and in its return movement will strike against the outer edge of the newly-delivered sheet in case the latter projects beyond the edge of the table, and will push it inward to bring its outer edge even with the edge of the table and its inner edge against the pins *c*.

The evener or device C may be suspended by means of a wire, D, which may be spring-brass, having its ends connected with the table at *d*, and passing through eyes or hooks *e* on the back of the device in the manner shown in Figs. 1, 2, and 3 or a cord or other device may be employed instead of the wire shown. The lowermost portion of the vane or evener C is preferably made of greater thickness, to give it weight and to cause it to return quickly when swung or moved outward. When the evener or vane is suspended by a wire, D, its outward movement, under the influence of blasts or currents of air from the fly, produces a tension in the spring-wire

which facilitates the return of the evener and makes its action more positive.

In Figs. 4 and 5 I have represented the evener or vane C as pivoted between its ends 5 and below the table A by means of screws *f*, which are fitted in lugs or ears *f'*, projecting from the table, and are centered in the edges of the evener C. When thus pivoted, the evener C is capable of being swung freely out- 10 ward at the upper end by blasts or currents of air from the fly, and its return may be assisted by a spring suitably arranged. I have here shown a spring, *g*, which may consist of a light elastic band attached at the ends 15 to the evener C and to the under side of the table A.

My device is very simple and inexpensive, and may be attached to an existing press at small cost. Although very simple in con- 20 struction, it is very effective for the purpose intended.

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

1. The combination, with a receiving-table 25 provided with gage-pins *c* and a fly sheet-delivery, of an evener or straightening device

hung at the outer edge of the table, capable of outward movement by the blasts of air produced by the fly, and adapted in its return movement to push inward the newly-delivered 30 sheets against said pins *c*, substantially as herein described.

2. The combination, with the receiving-table A, provided with gage-pins *c* and the fly B, of the evener or straightening device C, 35 made heavier in its lower portion, hung at the outer edge of the table and capable of operation, substantially as herein described.

3. The combination, with the receiving-table A, provided with gage-pins *c* and the fly 40 B, of the evener or straightening device C, made heavier in its lower portion, hung at the outer edge of the table for operation by blasts or currents of air from the fly, and actuated by spring-power to produce its return or 45 evening movement, substantially as herein described.

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