(No Model.)

M. S. STIEGLITZ.

SAD IRON.

No. 349,263. Patented Sept. 14, 1886.

Fig. 6.

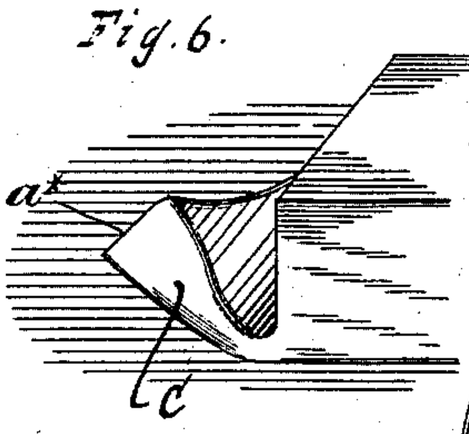


Fig. 1.

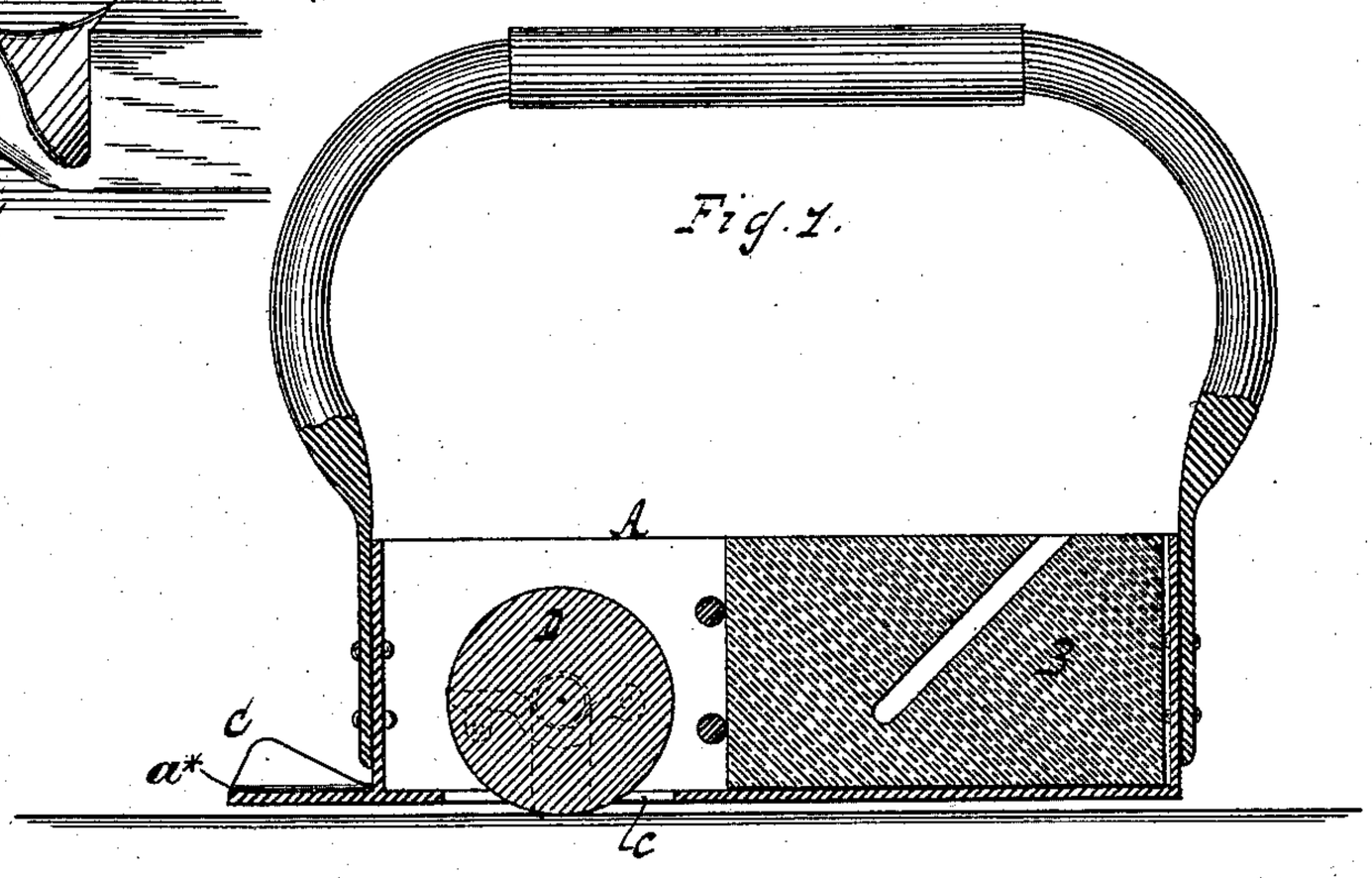


Fig. 2.

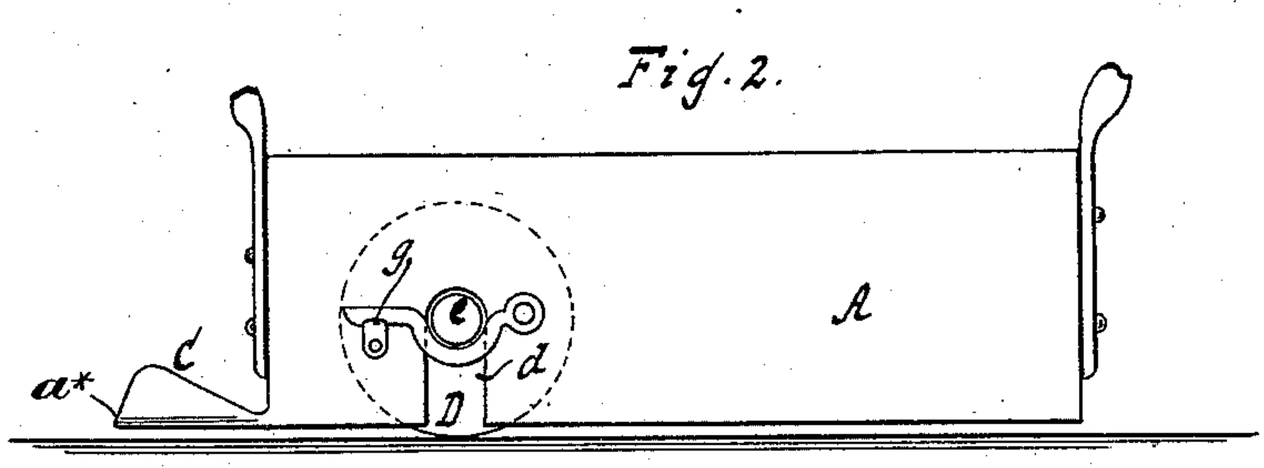


Fig. 3.

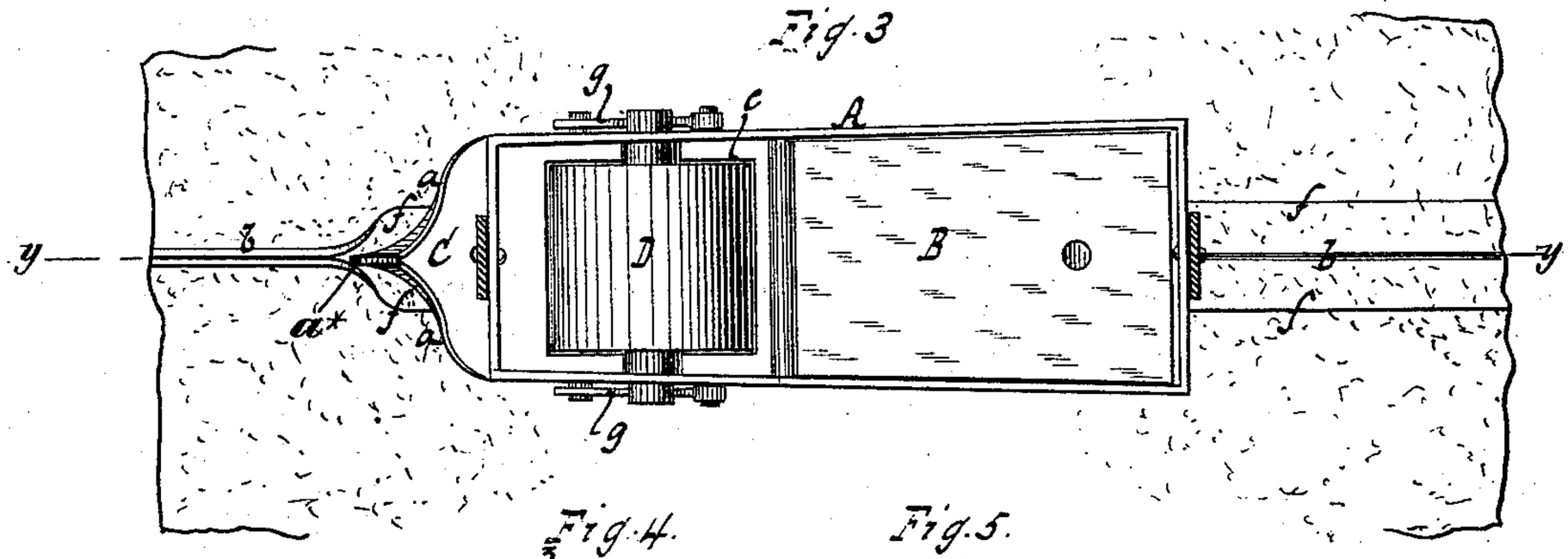


Fig. 4.

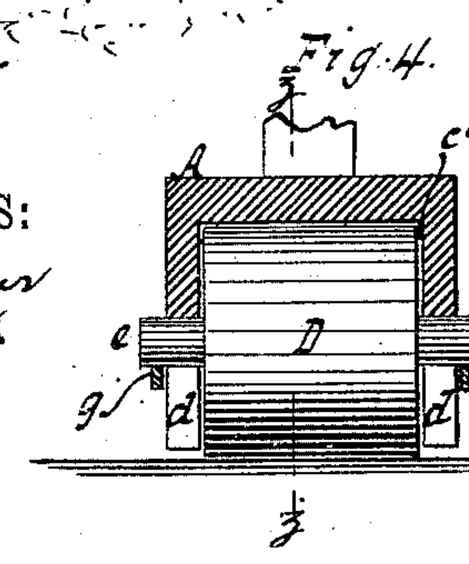
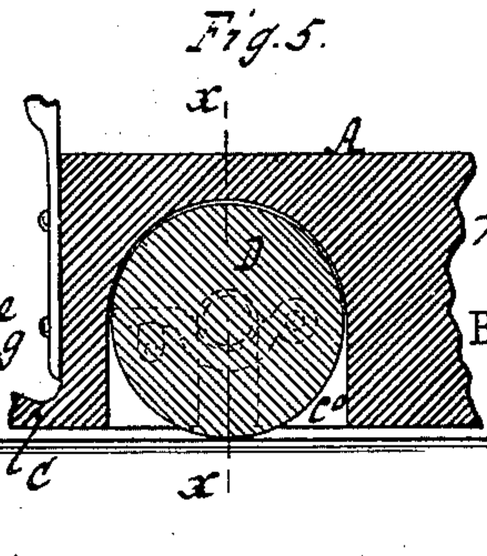


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

MARTHA S. STIEGLITZ, OF NEW YORK, N. Y.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 349,263, dated September 14, 1886.

Application filed December 17, 1885. Serial No. 185,949. (No model.)

To all whom it may concern:

Be it known that I, MARTHA S. STIEGLITZ, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Sad-Irons, of which the following is a specification.

This invention relates to a sad-iron provided with a plowshare-shaped seam-opener. With the sad-iron and the seam-opener is also combined a pressing-roller for laying the seam down flat after it has been opened by the plowshare-shaped point.

In the accompanying drawings, Figure 1 represents a longitudinal vertical section in the plane *y y*, Fig. 3. Fig. 2 is a side elevation. Fig. 3 is a plan or top view. Fig. 4 is a transverse section in the plane *x x*, Fig. 5. Fig. 5 is a longitudinal section in the plane *z z*, Fig. 4. Fig. 6 is a perspective view of the seam-opener.

Similar letters indicate corresponding parts.

In these drawings, the letter A designates the body of a sad-iron, which may be hollow, as shown in Figs. 1 and 3, or which may be solid, as shown in Figs. 4 and 5. If the iron is hollow, it is heated by a block, B; but if it is solid it may be heated by being placed upon a stove.

With this sad-iron is combined a plowshare-shaped point, C, by preference formed with ogee-shaped sides *a a*, (see Fig. 3,) so that when the same is introduced between a seam, *b*, Fig. 3, and the iron is moved forward the seam will be spread open and its flaps *f f* will be pressed down flat by the advancing iron. The plowshare-shaped point C may be made separate, of sheet metal or any other suitable material, and fastened to the body of the iron by means of rivets or otherwise; but I prefer to make said point solid with the body of the iron.

To open the seam with facility and to turn the flaps down neatly upon the goods prior to the advance of the pressing part of the iron, I form the point or seam-opener with sides that are both ogee-shaped, as before stated, and also inclined inward in their rise from the bottom, so that as the flaps *f f* are engaged by the same they are not abruptly spread by coming into contact with vertical walls, as with ordinary irons, but are gradually spread aside and turned down with the advance of the iron. The front or dividing edge, *a**, of the iron is also inclined inward, so that the lowest point thereof projects in advance of the upper portion, so that the flaps are first engaged nearest the line of stitches and spread aside from the bottom up, which facilitates the operation. Such a pointed edge also offers an efficient and accurate guide for the iron.

The operation of laying down the flaps of the seam after the same have been spread by the action of the point C can be facilitated by means of a pressing-roller, D, which is fitted into the body of the sad-iron. For this purpose said body is provided with an opening, *c*, Fig. 1, or with a cavity, c^0, Figs. 4 and 5, and with slots *d*, which receive the axle *e* of the roller D. Pivoted catches *g* retain the roller D in these slots, which catches can be swung about their pivots, so that the roller can be removed when desired. The roller D engaging the spread flaps presses the same firmly down upon the body of the goods, and does this better than if a flat surface were directly to press upon the seam, for the reason that it acts only on a small area, and acts gradually or progressively.

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

1. The combination, with a sad-iron, of the seam-opener C, having spreading ogee-shaped sides *a a*, that incline inward from the bottom, substantially as described.

2. The combination, with a sad-iron, of the seam-opener C, having spreading ogee-shaped sides *a a*, that incline inward from the bottom, and provided with an oblique dividing-edge, *a**, substantially as described.

3. The combination, with a sad-iron, of the seam-opener C, having spreading ogee-shaped sides *a a*, that incline inward from the bottom, and a pressing-roller, D, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

MARTHA S. STIEGLITZ. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.