

(No Model.)

M. S. MOSS.

PERFORATING ATTACHMENT FOR SEWING MACHINES.

No. 267,361.

Patented Nov. 14, 1882.

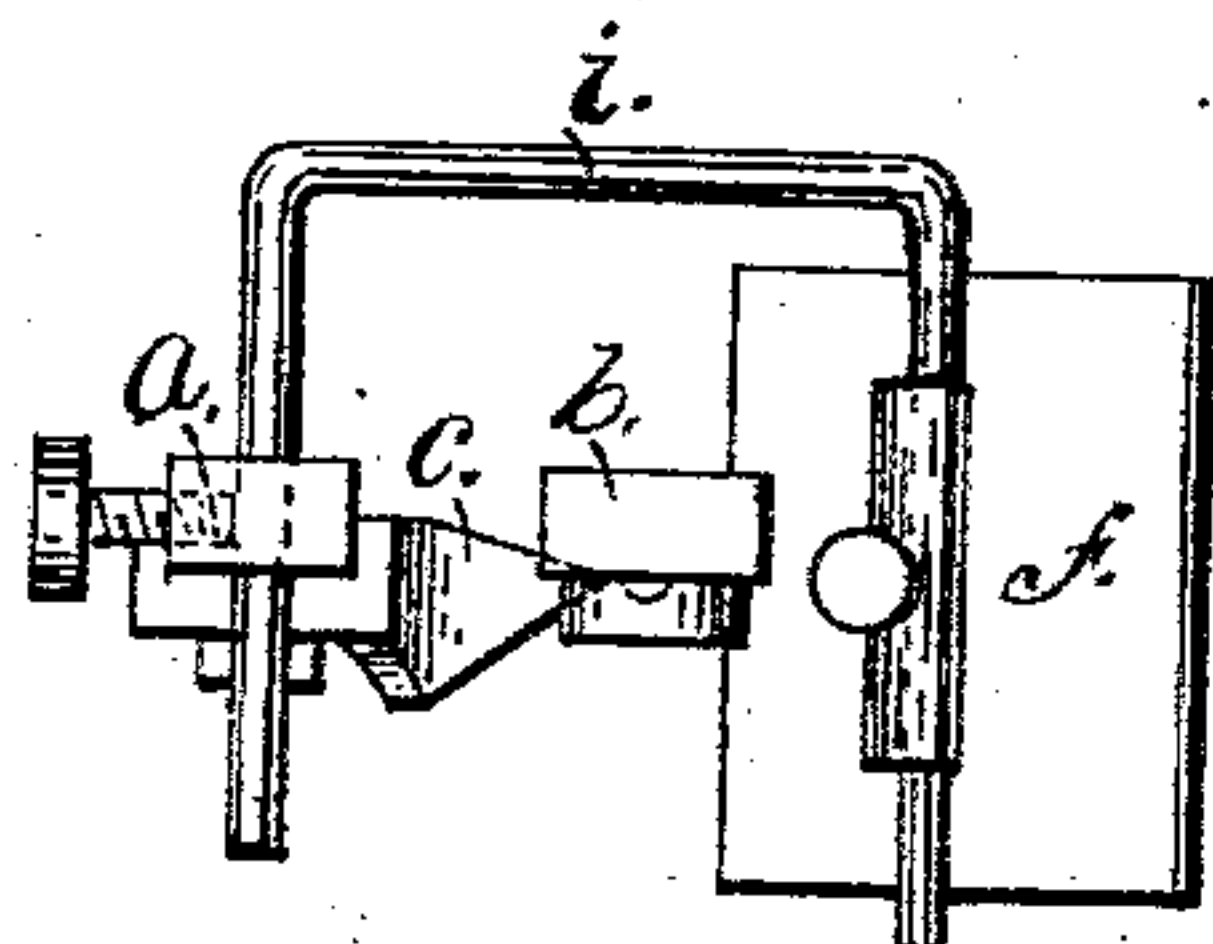


Fig. 3.

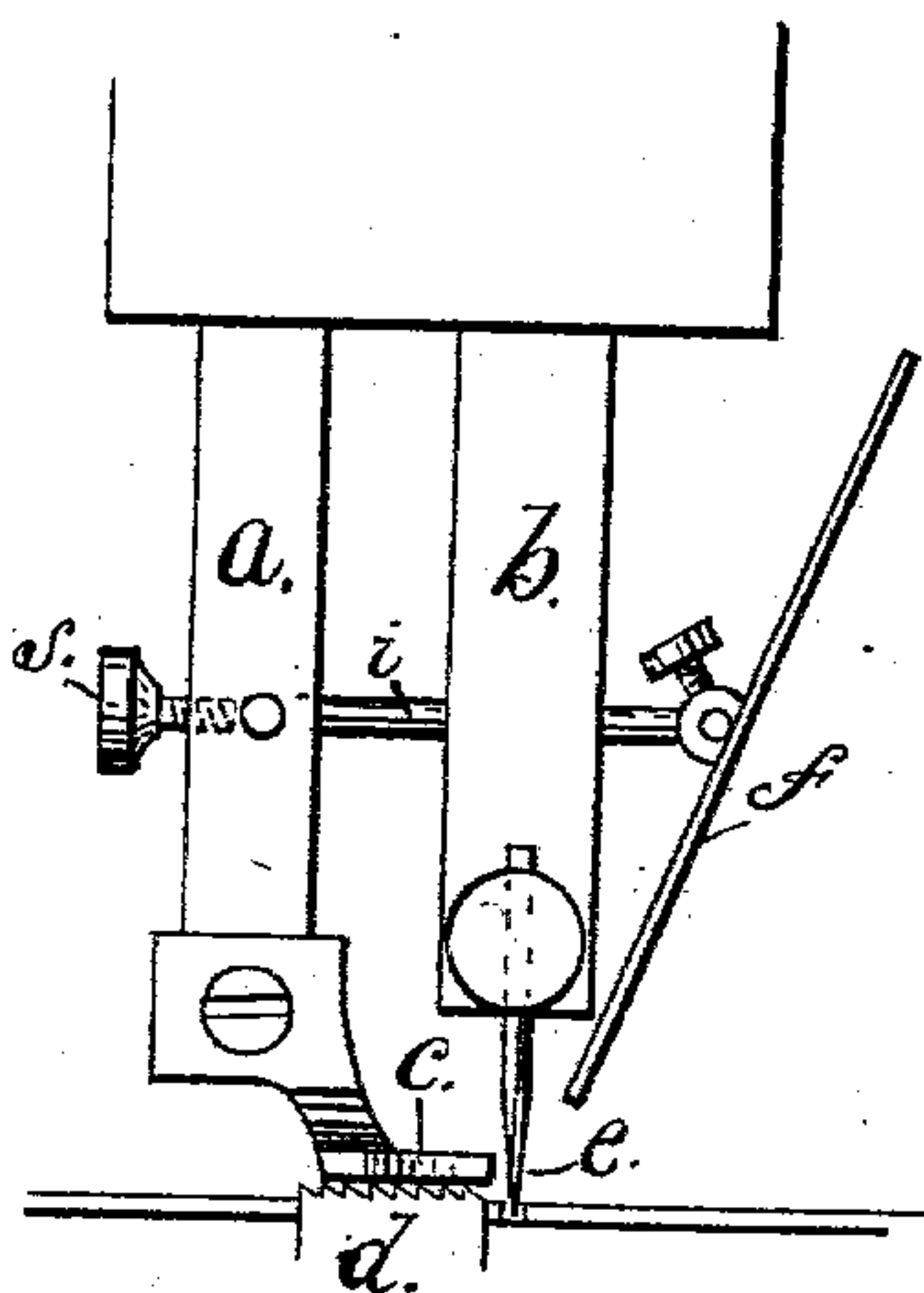


Fig. 1.

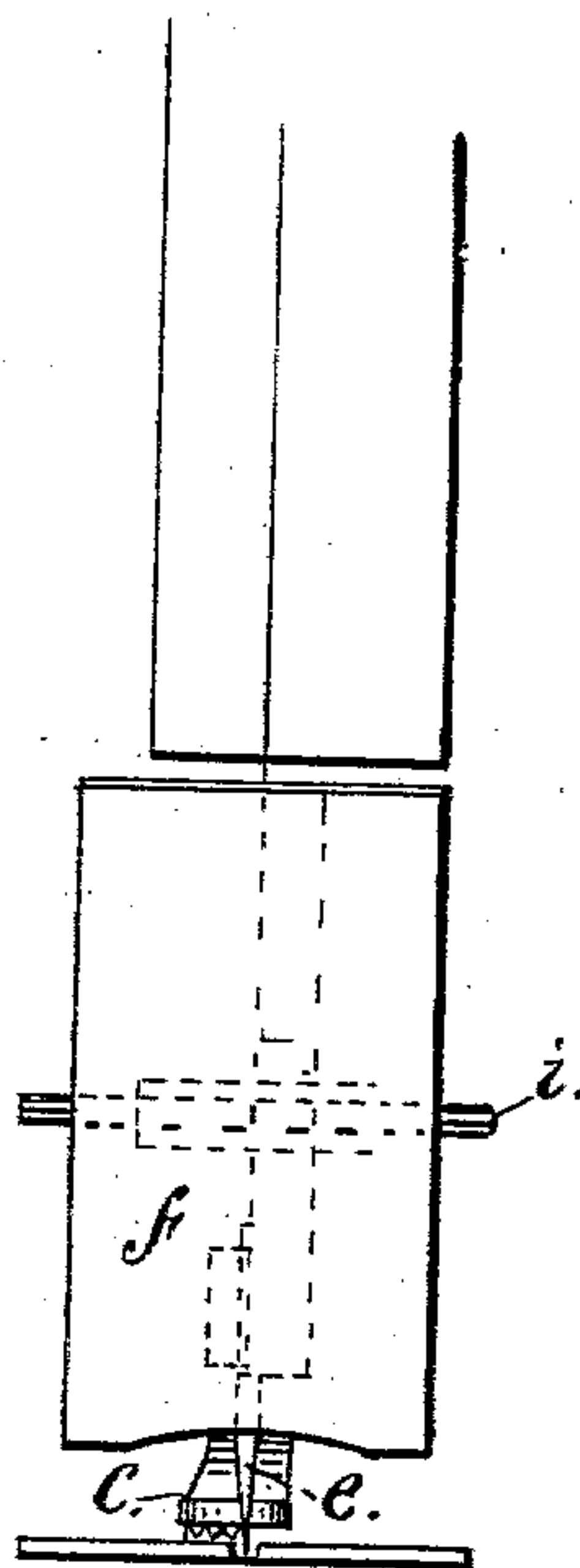


Fig 4.

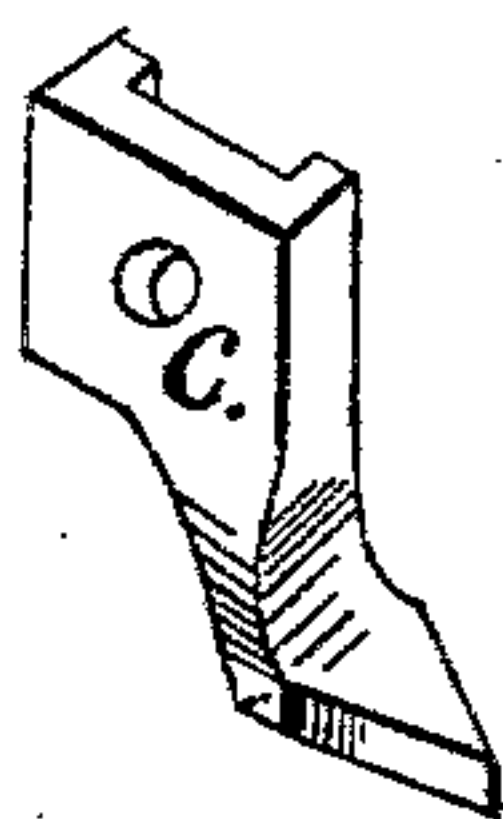


Fig 2.

WITNESSES:

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PERFORATING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 267,361, dated November 14, 1882.

Application filed May 6, 1882. (No model.)

To all whom it may concern:

Be it known that I, MARTHA S. MOSS, a resident of Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Improvement in Perforating Attachments for Sewing-Machines, of which the following is a specification, having reference to the accompanying drawings.

My invention relates to attachments to a sewing-machine, whereby said sewing-machine becomes a perforating-machine for perforating paper stencils for marking lines for embroidery.

It consists in a peculiarly-formed pressure-foot, a perforating-punch, and a shield, all combined with a sewing-machine to accomplish the object sought, as hereinafter fully described.

The accompanying drawings illustrate my invention.

Figure 1 is a side elevation; Fig. 2, a perspective view of the pressure-foot. Fig. 3 is plan; Fig. 4, an elevation.

Like letters refer to the same parts in all the figures.

a represents the pressure-bar of a sewing-machine, and *b* the needle-bar.

c represents my improved pressure-foot, which is attached to the pressure-bar in the ordinary manner. Said pressure-foot has but a small bearing on the feed-plate *d*, and its front end next the needle-bar is tapered to a point, as shown in Figs. 2 and 3. When the pressure-foot is secured in place on the pressure-bar said point is designed to be exactly in line behind the point of the perforating-punch *e*, which is secured to the needle-bar in place of the ordinary sewing-needle. The perforating-punch differs from an ordinary needle in that it has no eye or thread-groove, but principally in its length, it being much shorter and of such a length that when the needle-bar is at the lowest point of its downward stroke the point of the punch is just below the surface of the cloth-plate.

f is a shield or screen, made preferably of sheet metal, and so secured to the machine that it hides the movements of the lower end of the needle-bar from the operator, but at the

same time allows a full view of the point of the pressure-foot and of the punch when down.

The operation of my invention is as follows: The pattern or ornamental design of which it is desired to make a stencil is drawn upon a piece of Manila or other suitable paper. This is then laid upon a piece of parchment-paper or other material suitable for the stencil, and another piece of paper having been placed underneath the parchment-paper, the whole is stitched or otherwise secured together in the manner usual in the preparation of such work. The object is now to trace the lines of the design by punching minute and closely-adjacent holes thereon and through the parchment-paper. This is accomplished by passing the design under the pressure-foot and the rapidly-moving needle-bar, carrying the punch *e*. The pointed form of the foot allows the light to fall clearly on the lines, and the point serves as a guide to enable the operator to keep the line which she is following directly under the descending punch. The object of the screen or shield *f* is to prevent the operator from seeing the movements of the needle-bar. This is an important part of my invention, the movement of said bar having been found to confuse the sight of the operator while closely watching the lines of the pattern. For the purposes of this illustration I have here shown the shield attached to the pressure-bar by a bent rod, *i*, and set-screw *s*; but it may be attached to the pressure-bar support or elsewhere. This kind of work has heretofore been done by expensive machinery designed especially for this purpose. By the use of my invention equally good work can be done on an ordinary sewing-machine.

I claim as my invention—

1. The combination, with the pressure-bar of a sewing-machine, of a pressure-foot attached to said bar, and having its front end next the needle-bar terminating in a point, for the purpose set forth.

2. The combination, with the pressure-bar of a sewing-machine, a pressure-foot having its front end terminating in a point, and the needle-bar of a sewing-machine, of a short perforating-punch, of substantially the relative

length described, attached to said needle-bar, for the purpose set forth.

3. The shield *f*, combined with the needle-bar of a sewing-machine, substantially in the manner and for the purpose set forth.

5 4. A pressure-foot terminating in a point, as described, a short perforating-punch, of substantially the length described, and a shield

interposed between the eyes of the operator and the needle-bar, all combined with a sewing-machine, substantially in the manner and for the purpose set forth.

MARTHA S. MOSS.

Witnesses:

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