

(No Model.)

M. F. DECKER.  
LAST.

No. 563,573.

Patented July 7, 1896.

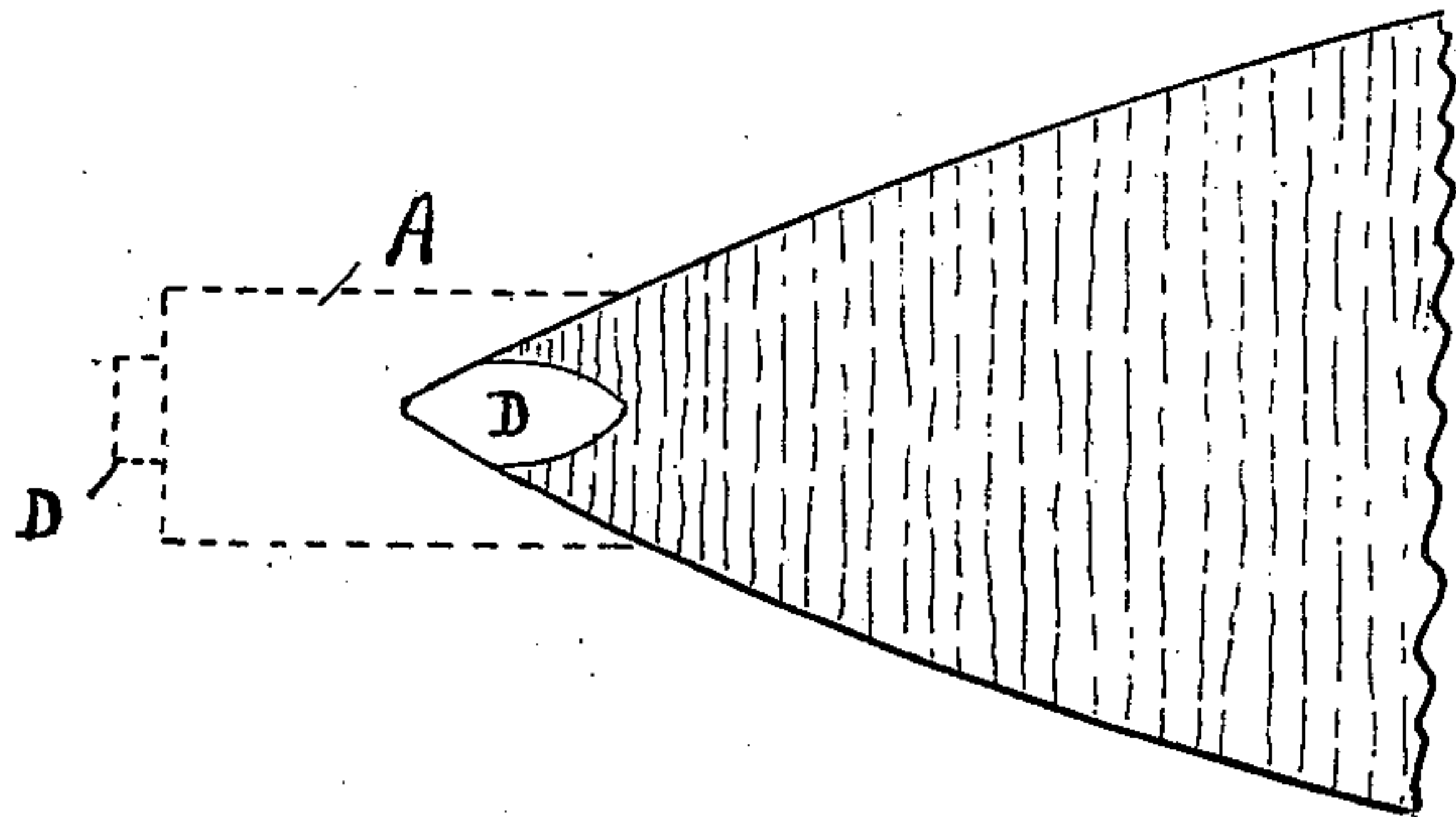


FIG. 1.

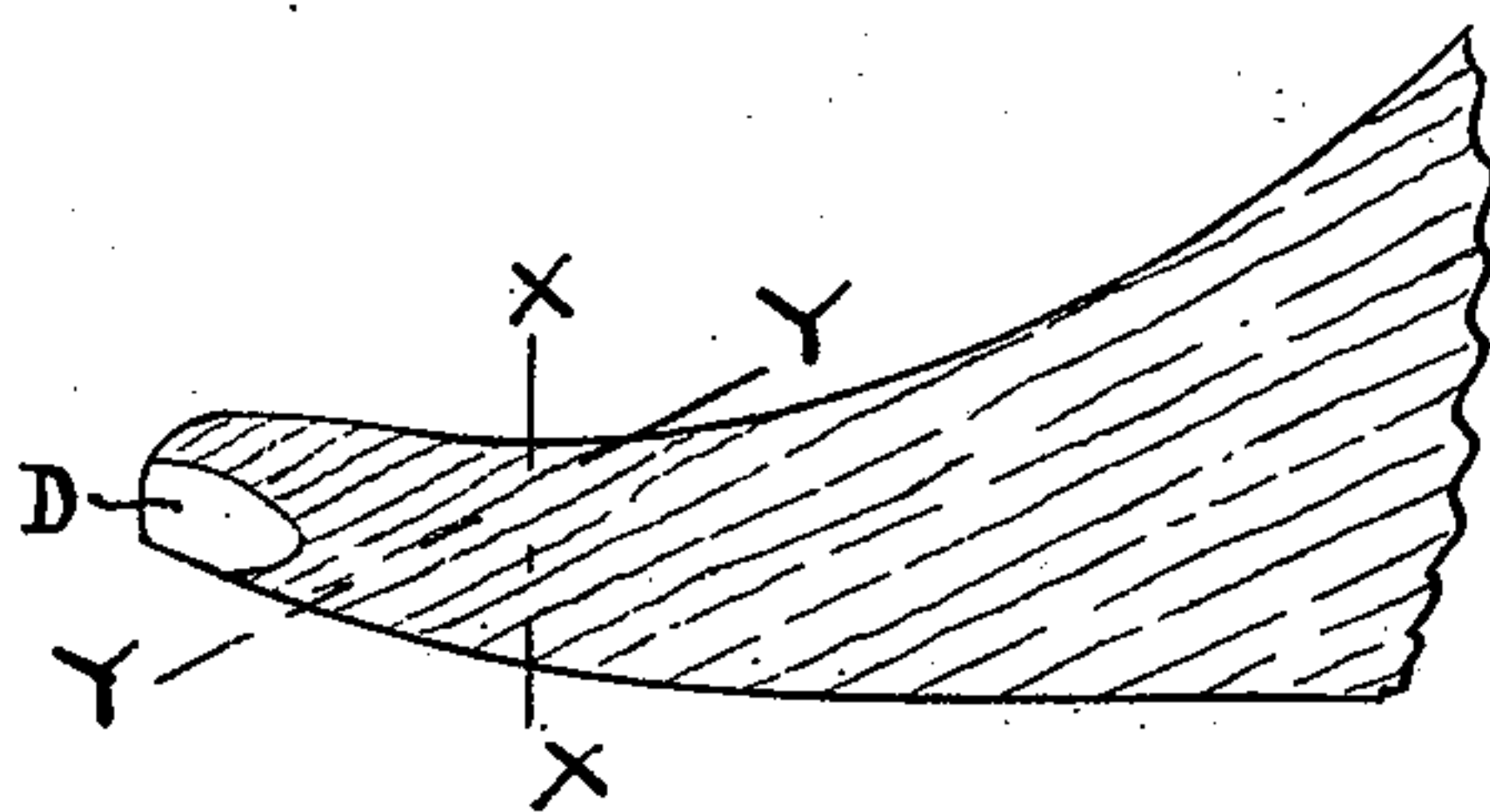


FIG. 2.

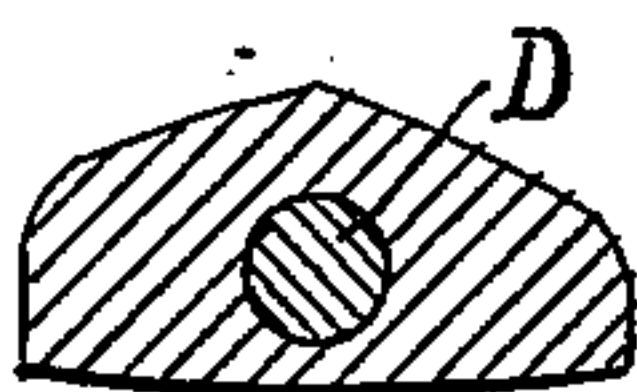


FIG. 3.

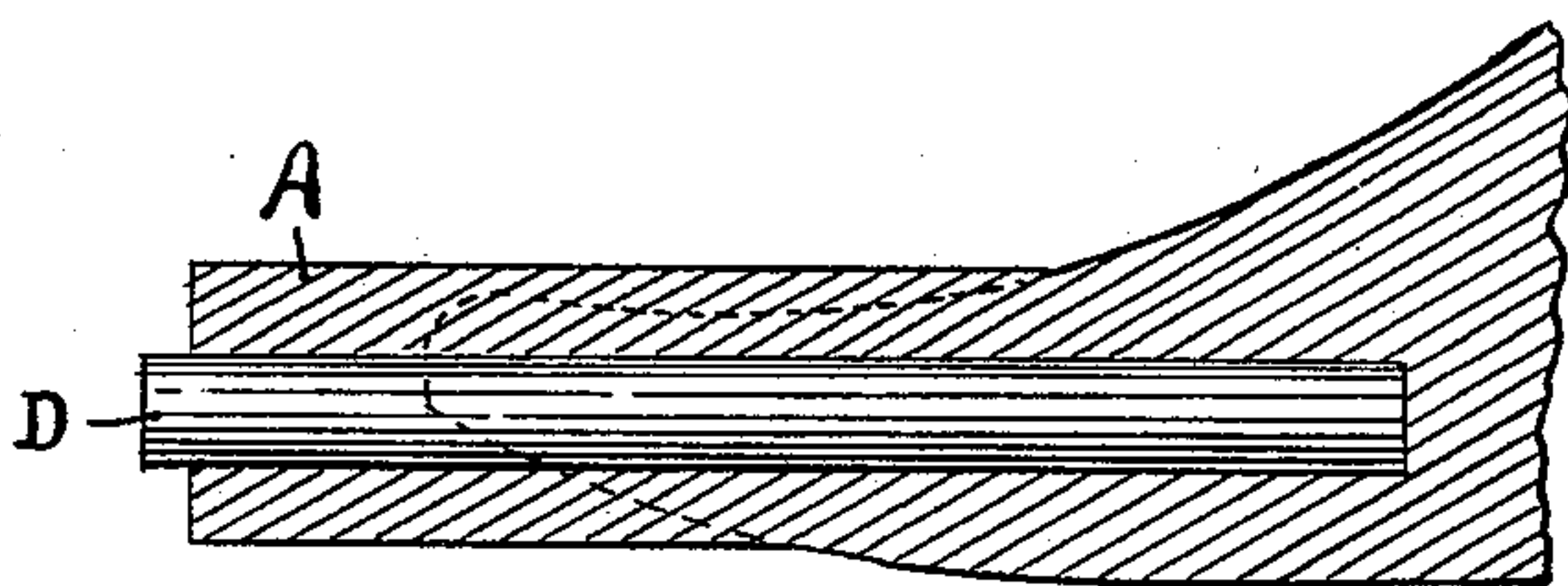


FIG. 4.

WITNESS:

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# UNITED STATES PATENT OFFICE.

MILLARD FILLMORE DECKER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE  
CHICAGO LAST AND DIE COMPANY, OF SAME PLACE.

## LAST.

SPECIFICATION forming part of Letters Patent No. 563,573, dated July 7, 1896.

Application filed February 8, 1896. Serial No. 578,543. (No model.)

*To all whom it may concern:*

Be it known that I, MILLARD FILLMORE DECKER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lasts, of which the following is a specification.

The object of my invention is to provide a simple and efficient means for preventing the toes of lasts, and especially narrow toes, from breaking off, and the manner in which I accomplish this result is illustrated in the accompanying drawings, in which—

Figure 1 is a bottom view of the toe of a last. Fig. 2 is a side elevation of the same. Fig. 3 is a section on line X X of Fig. 2; and Fig. 4 is a longitudinal section before the toe is finished, showing the manner of inserting the strengthening-pin.

In lasts made of wood the grain of the wood runs crosswise, as is illustrated by the direction of the irregular shade-lines in Figs. 1 and 2. When the toe of the last is a narrow one, as shown in the drawings, that part becomes very fragile and many lasts are ruined by being broken at or near the line Y. Y. To overcome this difficulty, in making the last I leave a considerable body of wood at the toe, as shown at A in Figs. 1 and 4. Into this body I bore a deep hole, inclined to the grain of the wood, and drive in the dowel-

pin D. This dowel is preferably of hickory or other tough wood, but may be of metal, and is more securely held by being coated with glue before being driven into place. When the glue has dried, the toe is finished up in the ordinary manner by trimming away the surplus wood of the boss A and dowel D.

The only evidence of the existence of the dowel in the outward appearance of the last is a faint curved line. (Shown in Figs. 1 and 2.)

What I claim is—

1. In wooden lasts, a wooden insert in the toe of said last, said insert having its grain inclined to the grain of the body of the last.

2. In wooden lasts, a dowel-pin driven into the toe of said last, made integral therewith, and having its axis inclined to the grain of the body of the last.

3. A last, the toe of which consists of interior and exterior bodies of wood, the grains of which are inclined to each other.

4. A wooden last part of the contour of which is made up of an inserted body of wood, the grain of which is inclined to the grain of the main body of the last.

MILLARD FILLMORE DECKER.

Witnesses:

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