

A. S. HANSON.

Improvement in Automatic Brake for Sewing-Machines.

No. 131,269.

Patented Sep. 10, 1872.

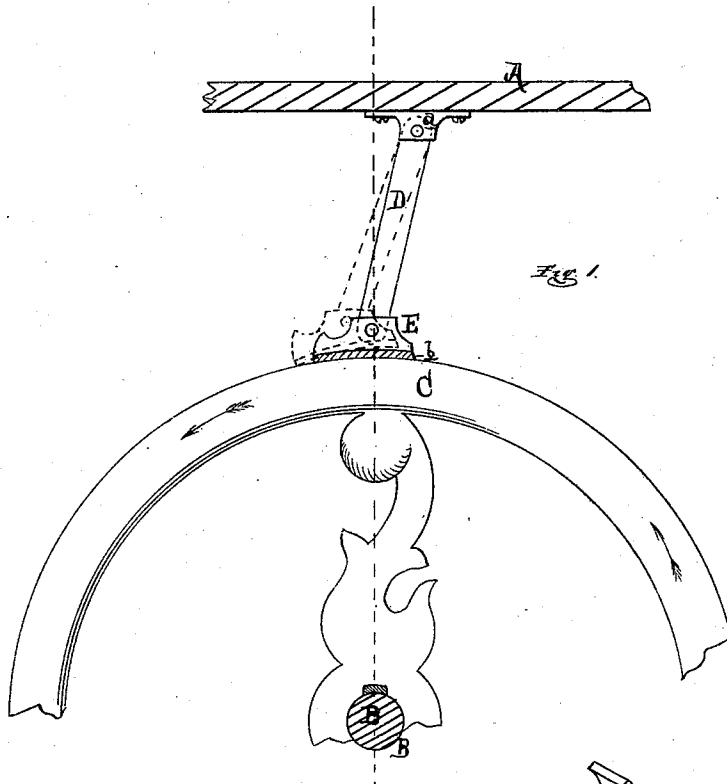


Fig. 1.

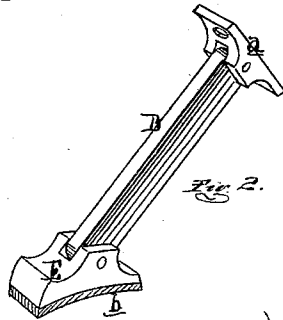


Fig. 2.

ATTEST:
H. S. Sprague
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INVENTOR:
Albert S. Hanson
By *Atty*
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UNITED STATES PATENT OFFICE.

ALBERT S. HANSON, OF MILAN, MICHIGAN, ASSIGNOR TO HIMSELF AND J. T. HORTON, OF SAME PLACE.

IMPROVEMENT IN AUTOMATIC BRAKES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 131,269, dated September 10, 1872.

To whom it may concern:

Be it known that I, ALBERT S. HANSON, of Milan, in the county of Monroe and State of Michigan, have invented a new and useful Improvement in an Automatic Brake for Sewing-Machines; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 shows my improved brake applied to a sewing-machine; and Fig. 2 is a detached perspective view of the same.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improvement in that class of sewing-machine brakes which are designed to arrest the retrograde movement of the driving-wheel; and it consists in a peculiar brake-shoe faced with rubber or other suitable material, eccentrically pivoted to the lower end of a pendent bar, pivoted to the under side of the table, a little to the rear of a perpendicular line, which, if dropped from the table, would pass through the axis of the shaft, so that the wheel is free to rotate in the proper direction; but as soon as it commences to reverse, or stops moving, is wedged fast by the shoe and pendent bar, as more fully hereinafter set forth.

In the drawing, A represents a portion of the table of a sewing-machine; B, the driving-shaft; and C, part of the balance or fly wheel, which is keyed on the shaft. D is a bar pivoted in a hanger, *a*, secured to the under side of the table above the shaft. The proper direction for the rotation of the driving-shaft

being indicated in Fig. 1—that is, to the left—this hanger is placed a little to the right of a perpendicular line dropped through the axis of the shaft. To the foot of the bar D is pivoted a metallic brake-shoe, E, whose lower surface is a segment of a circle having the same radius as the driving-wheel. The shoe is faced with a strip of rubber or leather, preferably the former, seen at *b*. The shoe is so pivoted to the bar D that the end toward which the wheel should travel is a little the heaviest, and, as a consequence, will always bear lightly upon the wheel-rim. The bar D is of such length that when the wheel is in repose the shoe will bear on the rim while the bar will be inclined, so that if the wheel should commence a retrograde movement it would be wedged fast by the bar.

The brake may be applied to any style of machine having the balance-wheel below the table, the length of bar being different only for machines of different manufacture. As the wheel advances in the proper direction, the heavier end of the shoe drags lightly on the rim, and if the facing wears away it can readily be replaced.

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

The bar D, pivoted to the under side of a sewing-machine table, with the shoe E pivoted to its lower end, and resting in contact with the rim of the balance-wheel, all arranged and operating in the manner and for the purpose set forth.

ALBERT S. HANSON.

Witnesses:

H. F. EBERTS,
H. STANLEY SPRAGUE.