

No. 684,848.

Patented Oct. 22, 1901.

D. MCGILL.
GARMENT STRETCHER.

(Application filed Mar. 29, 1901.)

(No Model.)

2 Sheets—Sheet 1.

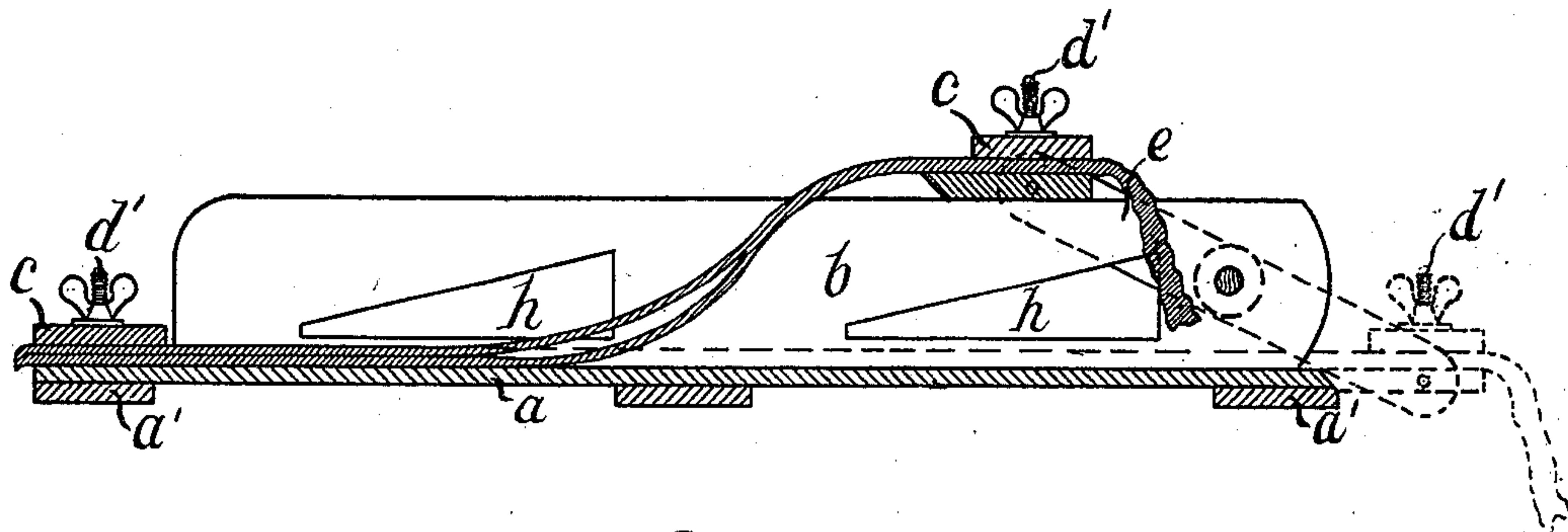


FIG. 1.

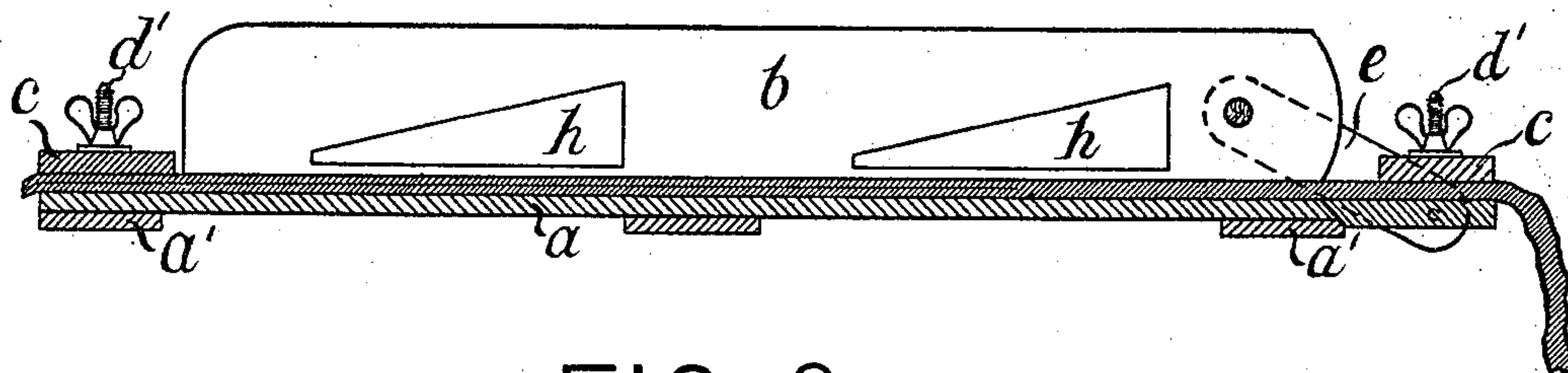


FIG. 2.

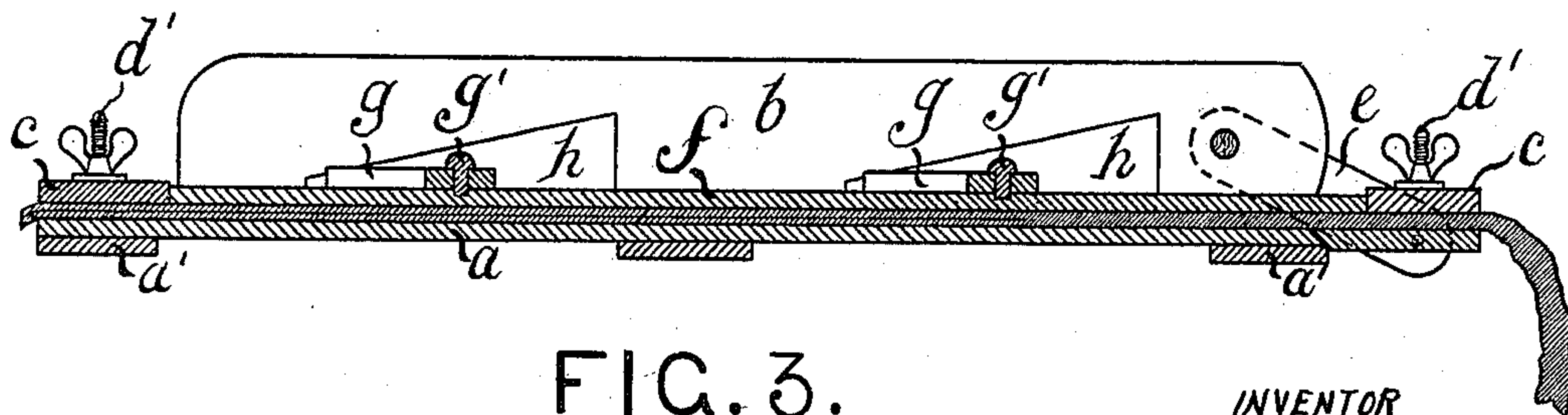


FIG. 3.

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No. 684,848.

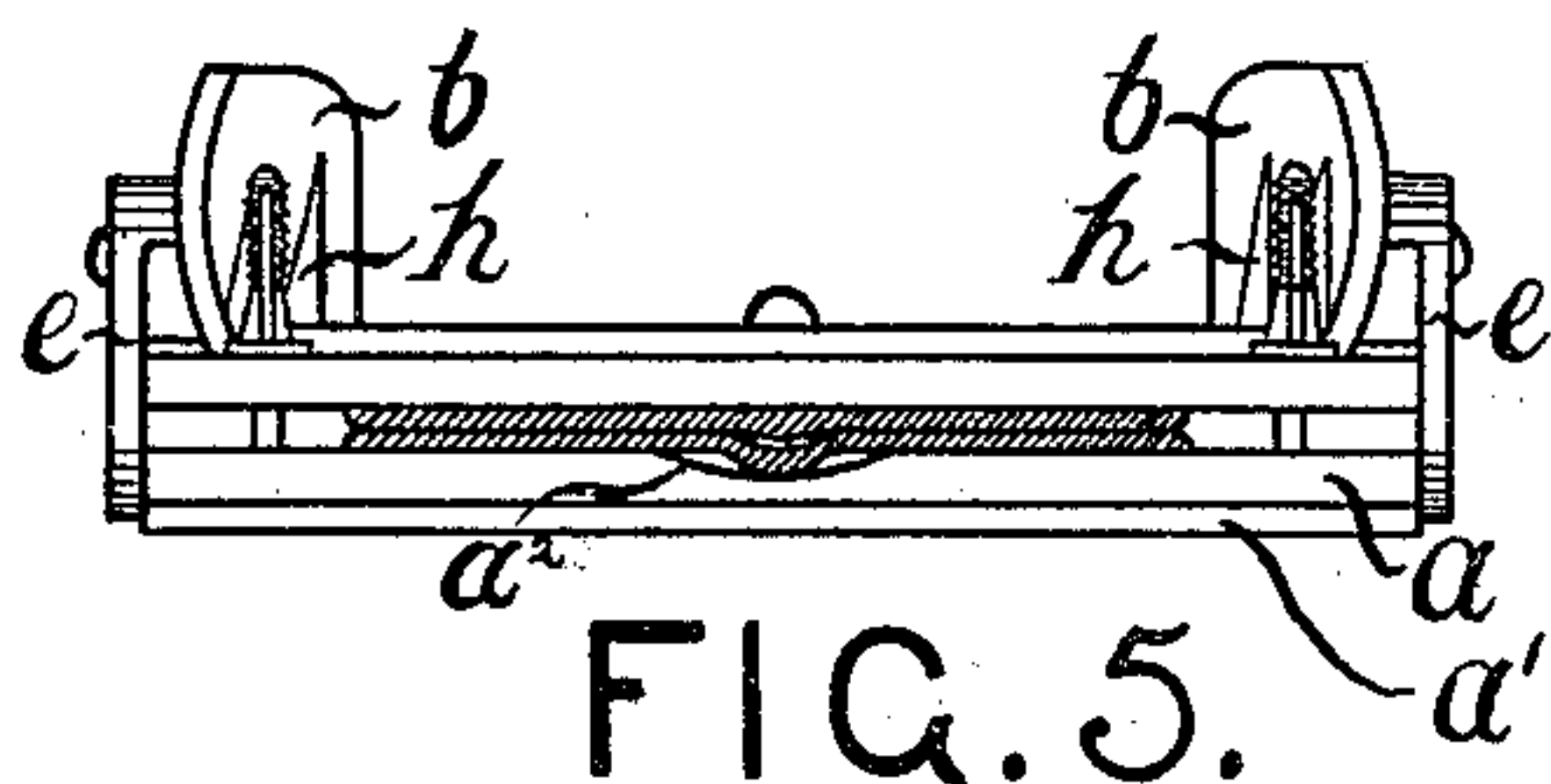
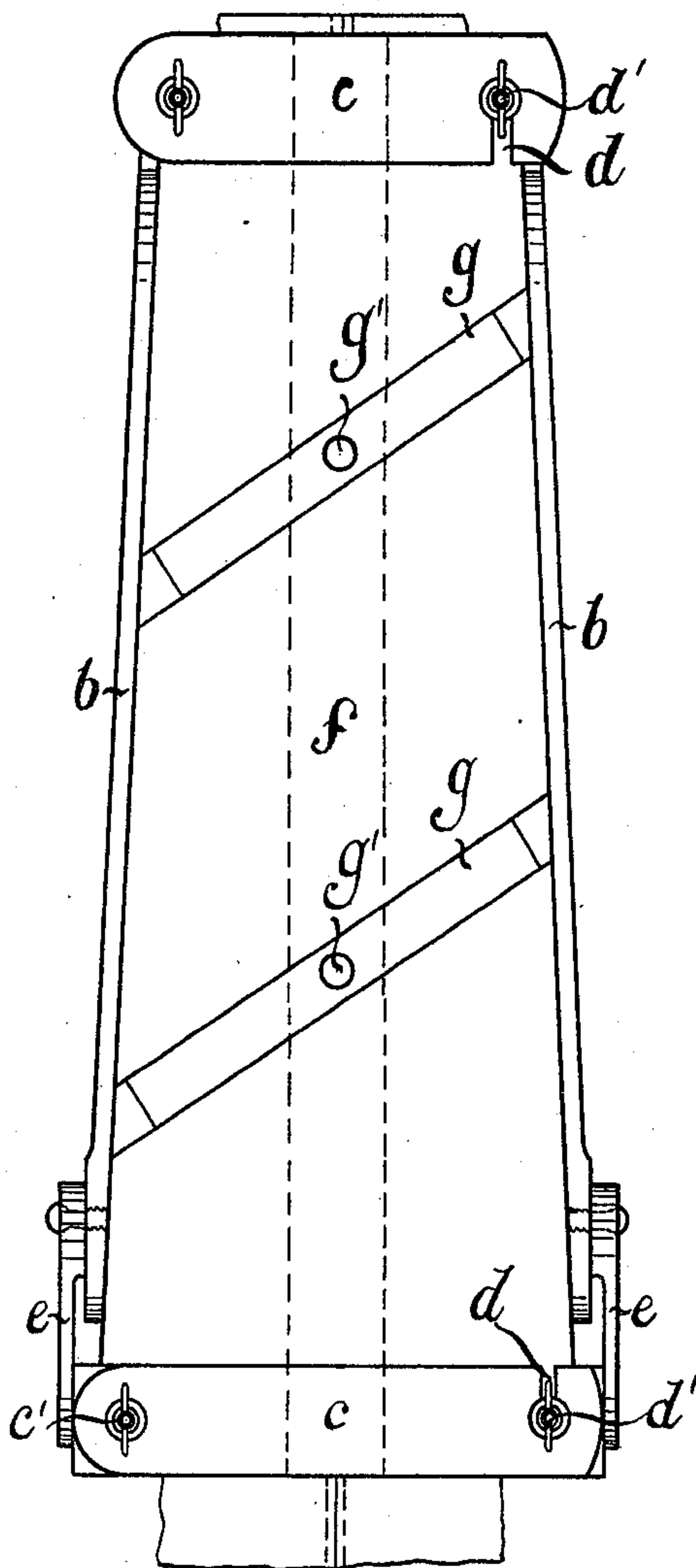
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2 Sheets—Sheet 2.



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INVENTOR:

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UNITED STATES PATENT OFFICE.

DANIEL MCGILL, OF LONDON, ENGLAND, ASSIGNOR TO HIMSELF AND
ARTHUR CHARLES ADOLPH HUTTON, OF SAME PLACE.

GARMENT-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 684,848, dated October 22, 1901.

Application filed March 29, 1901. Serial No. 53,463. (No model.)

To all whom it may concern:

Be it known that I, DANIEL MCGILL, of London, England, a subject of the King of Great Britain and Ireland, have invented a new and useful Improved Combined Trousers Stretcher and Press, (for which I have made application for Letters Patent in Great Britain, No. 16,548, bearing date September 17, 1900, and in Germany November 12, 1900,) of which the following is a specification.

This invention relates to the simultaneous stretching and pressing of trousers or similar wearing-apparel; and it consists of a simple, cheap, and efficient apparatus for the purpose. Figure 1 is a longitudinal section of the apparatus with trousers inserted before stretching. Fig. 2 shows in same section the trousers stretched. Fig. 3 shows in same section the pressing-board added after stretching. Fig. 4 is a plan of the same with the pressing-board in place and pressed home. Fig. 5 is an end view of the same.

a is a frame, of which the base is a board of about the width and length of the leg of a pair of trousers, strengthened by battens a' and having a vertical flange b on each of the long sides.

The base-board a is provided with a groove or shallow depression a^2 on its face to admit the quadruple seams of the legs of the trousers that usually coincide in the center when the trousers are properly folded.

At one end of the base-board a is a fixed clamp c , preferably a wooden bar, pivoted on one end on a bolt c' with a fly-nut and having a slot d at the other end engaging on a second bolt d' with fly-nut. This forms a fixed clamp for the ends of the trousers-legs. At the other end of the base-board is a similar clamp c , with similar bolts and fly-nuts $c' d'$, mounted pivotally on the ends of two crank-arms $e e$, which are pivoted at e' , so as to revolve on the upper ends of the flanges b of the base-board a .

When the trousers have been properly folded, one end is inserted under the fixed clamp c and the other end inserted, so that they hang loosely, under the clamp c , mounted on the ends of the crank-arms e , which is brought over for the purpose toward the fixed clamp end of the board, Fig. 1. The said clamp-

arms are then pulled over forcibly, as shown in dotted lines, Fig. 1, until the crank-arms pass the center of tension and come home on the end of the base-board a , as shown in Fig. 2.

The mechanical advantage of the cranks in producing tension upon the trousers as the cranks pass over the center of tension is very great, thus producing a stretching of the trousers or garment enormously in excess of the manual force exerted. The stretching mechanism above described as it rests in the position shown in Fig. 2 is self-locking by the tension itself, and the trousers or garment is in an excellent position and condition to be effectively pressed with comparatively small direct pressure.

f is a stiff pressing-board adapted to lie upon the trousers or garment between the flanges $b b$ of the base-board a , and upon this pressing-board f are pivoted two battens $g g$ on a central pivot g' . To fix the pressing-board in its place, these battens $g g$ are turned endwise to the board, and when the pressing-board f is in place the battens $g g$ are turned so that their ends engage into slots $h h$ in the vertical flanges $b b$ of the base-board. The upper edges of these slots $h h$ are tapered from the horizontal, as are also the ends of the battens $g g$ in a slighter degree, so that as the ends of the battens $g g$ are forced into the slots $h h$ there is a wedge action between them, forcing down the pressing-board f upon the trousers or garment under it.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In combination in a trousers-stretcher, a rigid base-board, a stationary clamp at one end of said base-board; a pair of crank-arms pivoted at the other end of said base-board and a clamp pivoted in outer ends of said crank-arms, said clamp being arranged to be moved to either side of a line passing through the pivot of the crank-arms and the other clamp, substantially as and for the purposes described.

2. In combination in a trousers-stretcher, a rigid base-board; means for tensionally stretching the trousers upon surface of said base-board, including clamps at opposite ends of said board, flanges b, b , forming parts

of the base-board, slots therein having upper faces of slots inclined to said base-board; a loose pressing-board fitting between side walls of said base-board and between the
5 clamps; and pressing-slats pivoted on said pressing-board adapted to engage by their ends into slots in said side walls, as and for the purposes described.

3. In combination in a trousers stretcher
10 and press, a rigid base-board, a stationary clamp at one end of said base-board; a pair of crank-arms pivoted at the other end of the said base-board; a clamp pivoted in outer ends of said crank-arms, adapted to come
15 home and lock by tension on the end of said base-board; side walls to said base-board; slots

in said side walls having upper faces of slots inclined to said base-board; a loose pressing-board fitting between the said side walls; and pressing-slats pivoted on said pressing- 20 board, adapted to engage by their ends into slots in said side walls, the said crank-arms being pivoted to the said side walls and the said loose pressing-board being arranged to fit between the said side walls and the clamps, 25 substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

DANIEL MCGILL.

Witnesses:

LINDSAY RALF CASEY,
ERNEST WALLACE DAY.