

No. 715,450.

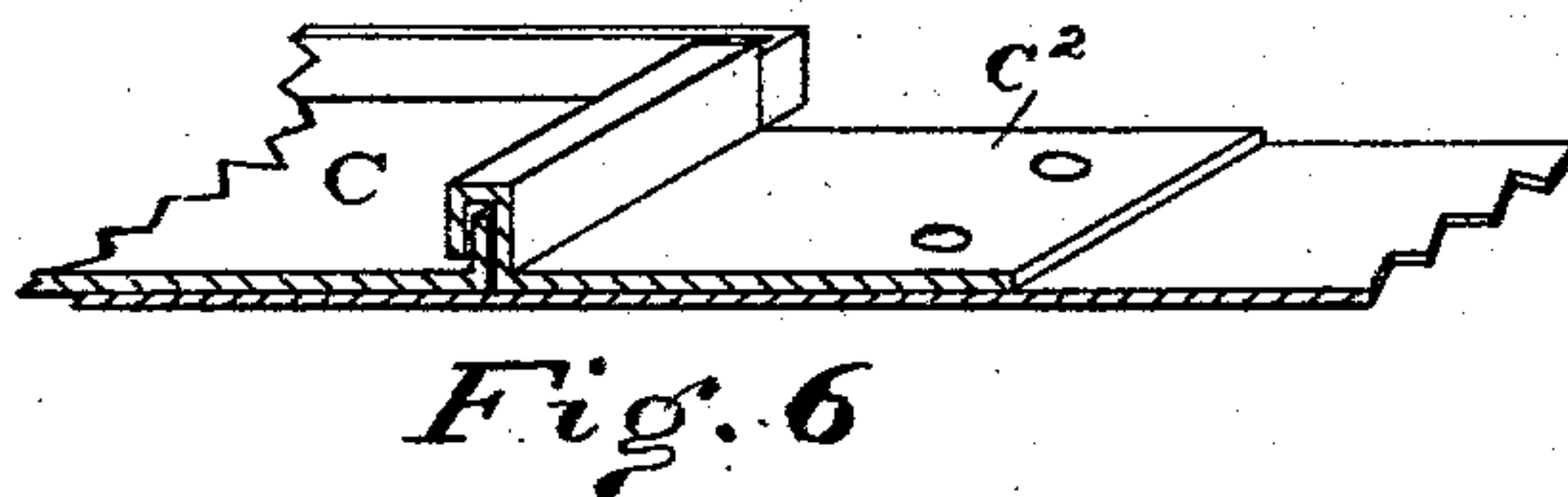
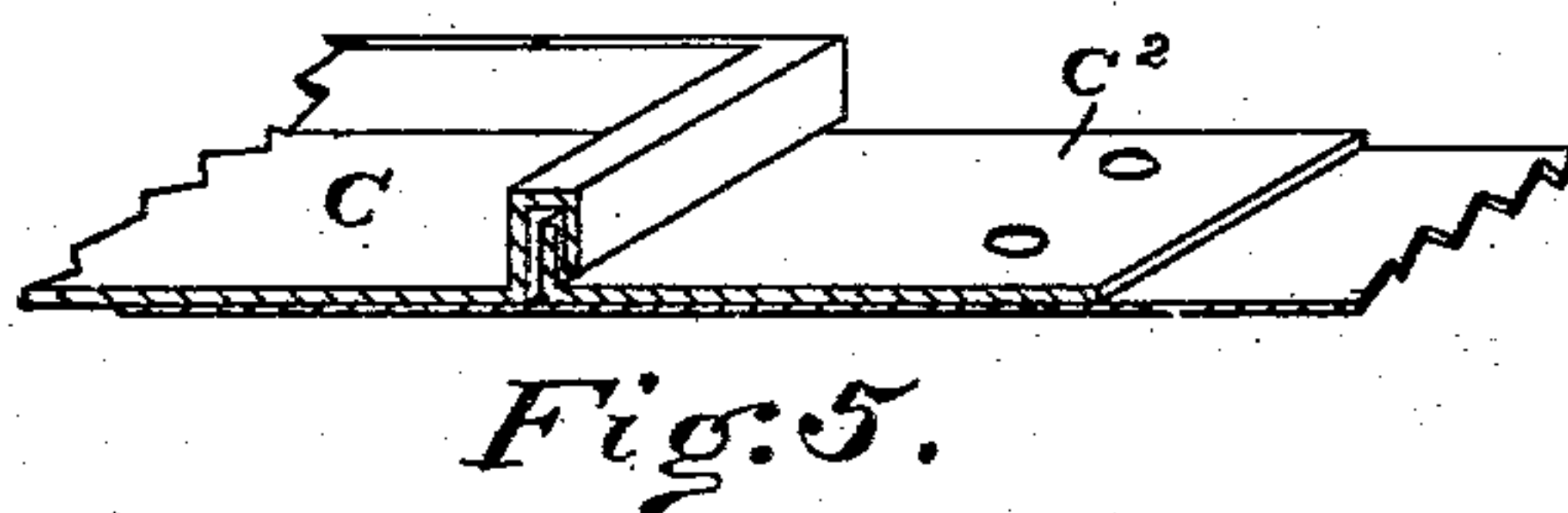
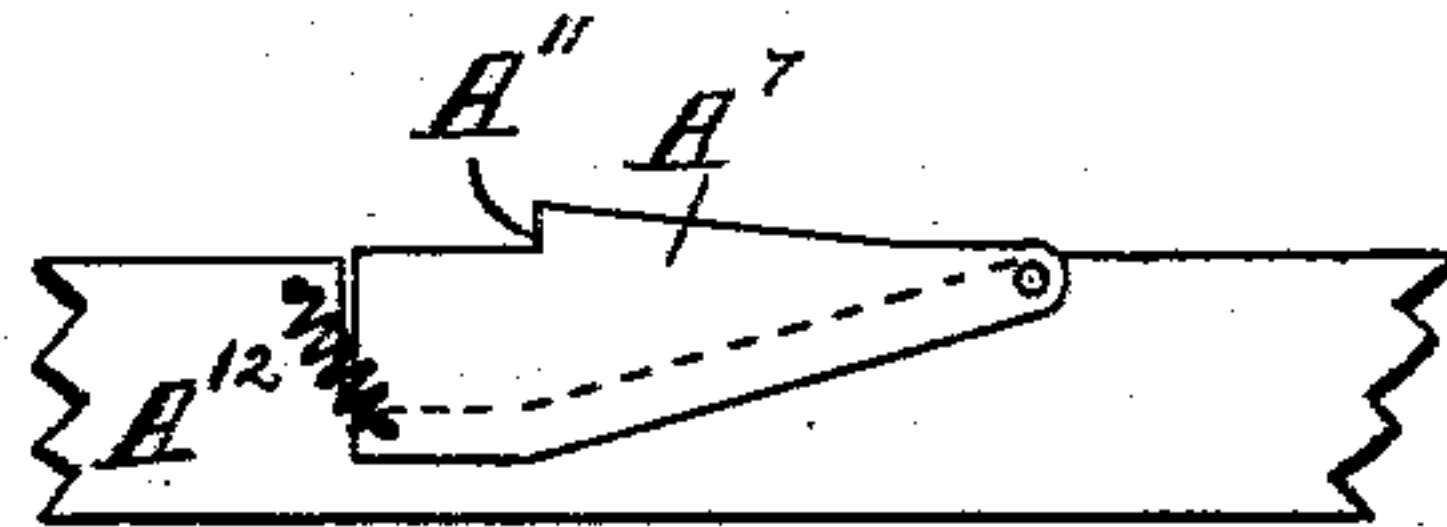
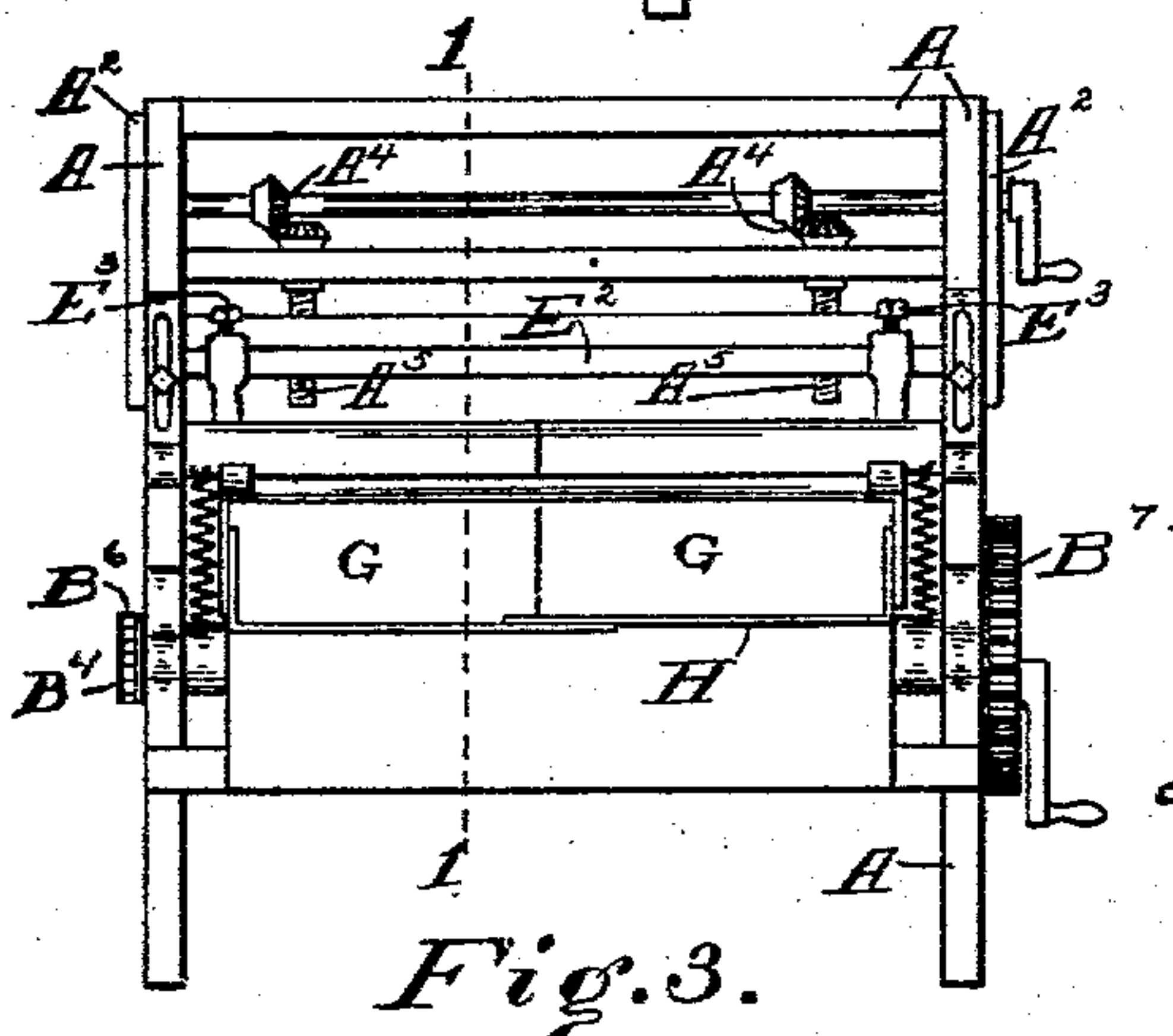
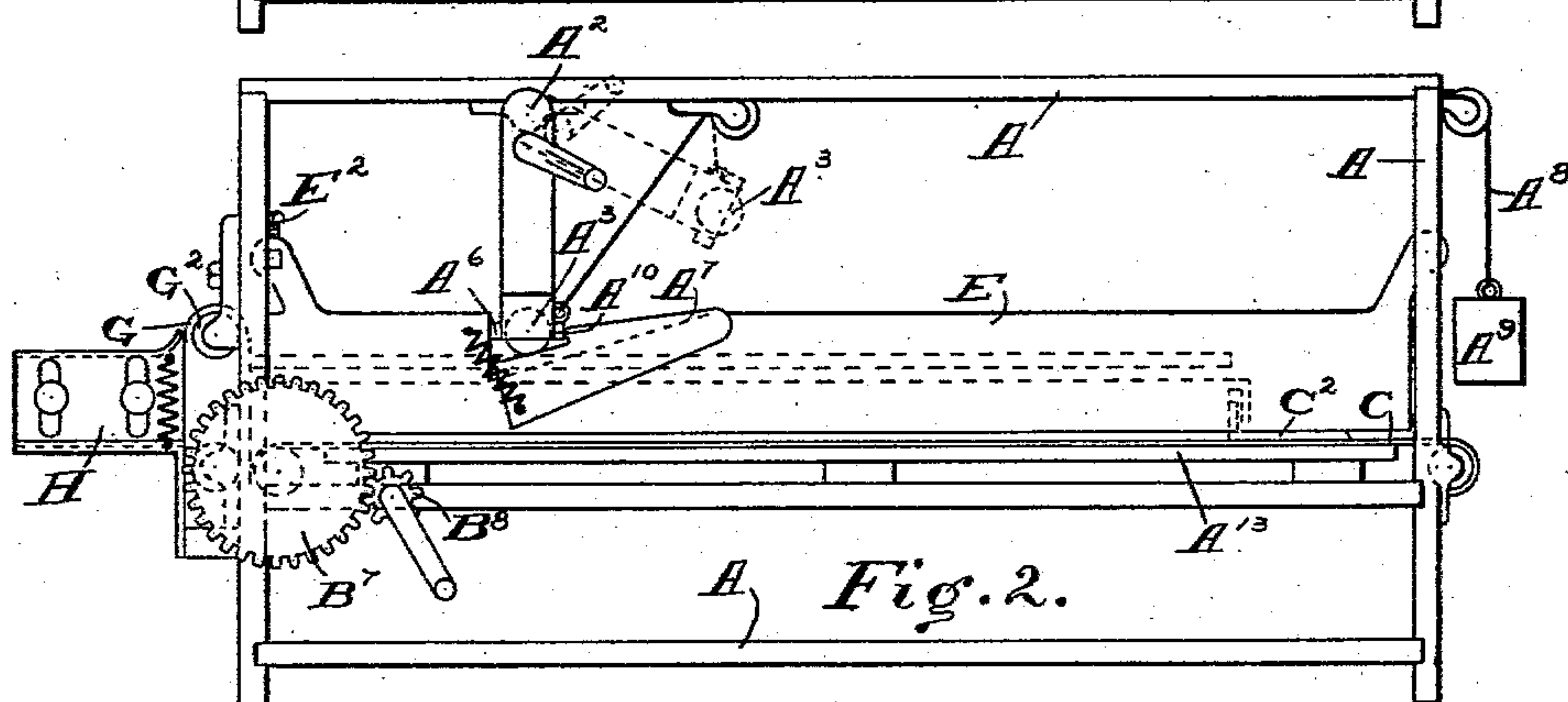
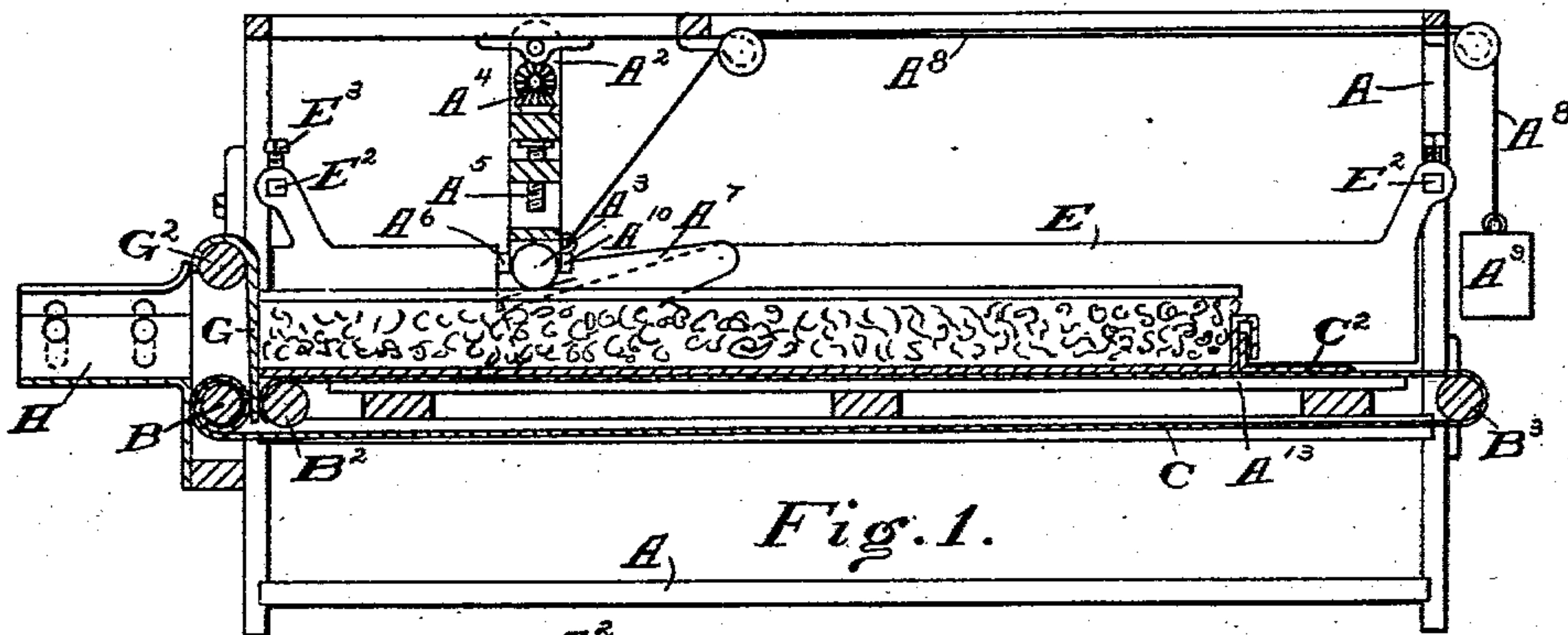
Patented Dec. 9, 1902.

A. WUEST, JR.
MATTRESS FILLING MACHINE.

(Application filed Jan. 3, 1902.)

(No Model.)

2 Sheets—Sheet 1.



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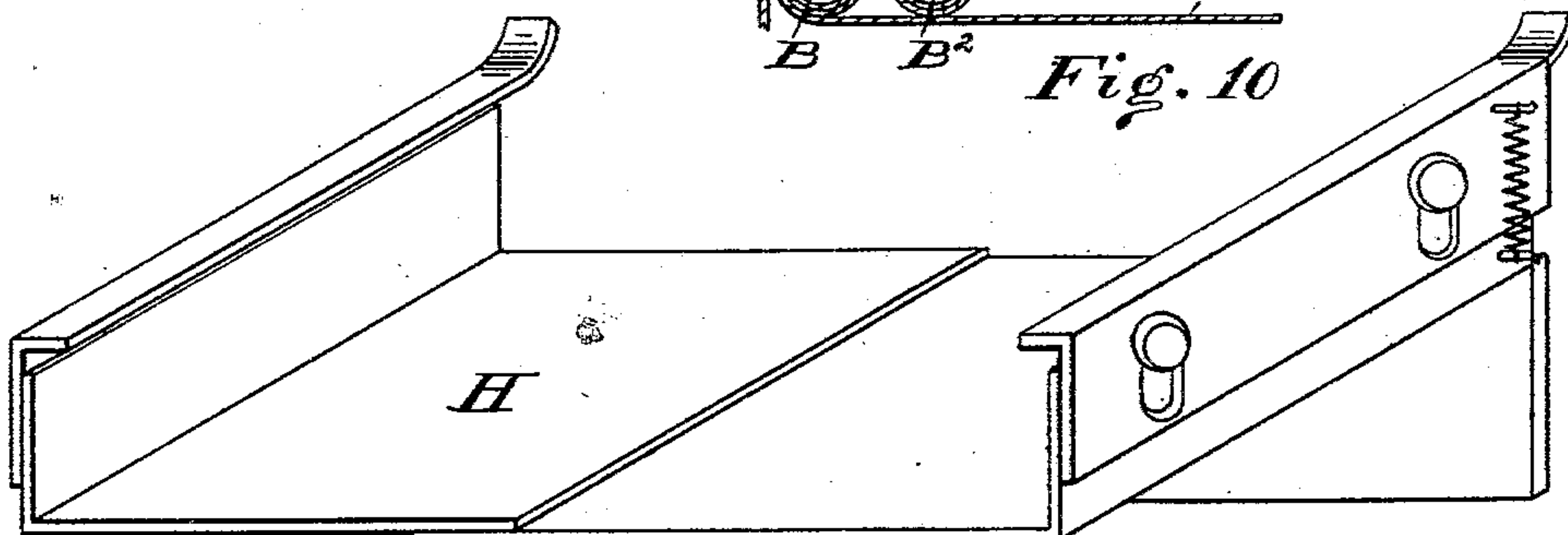
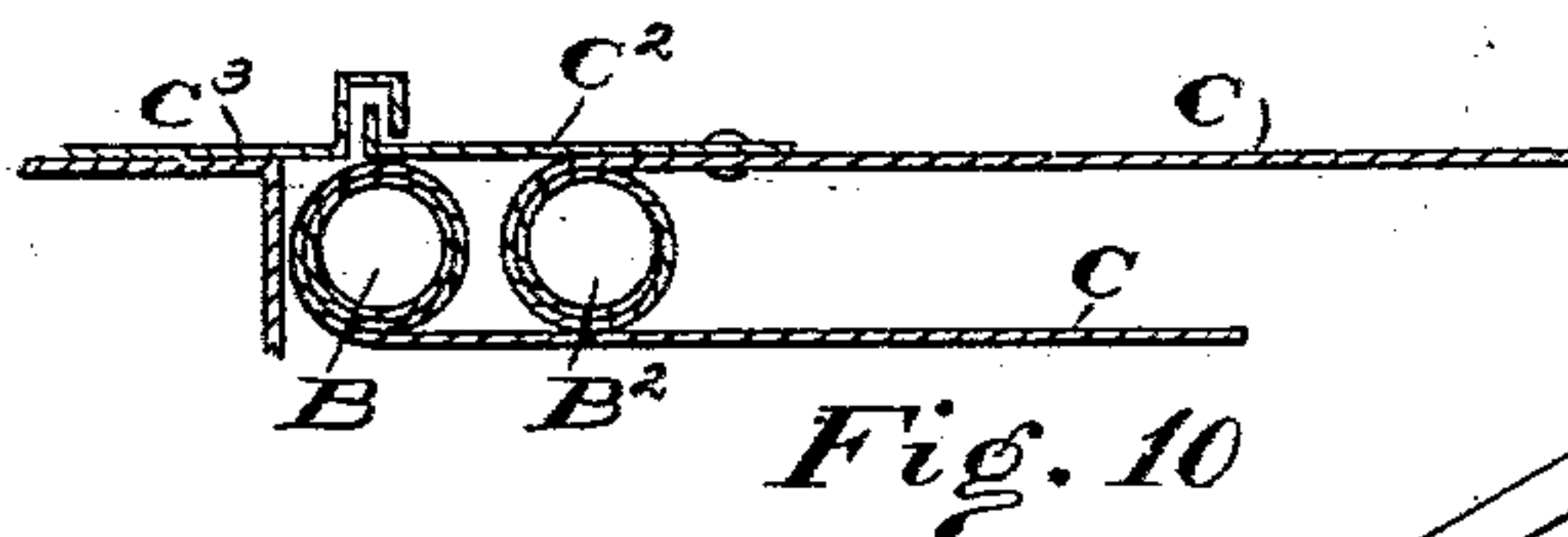
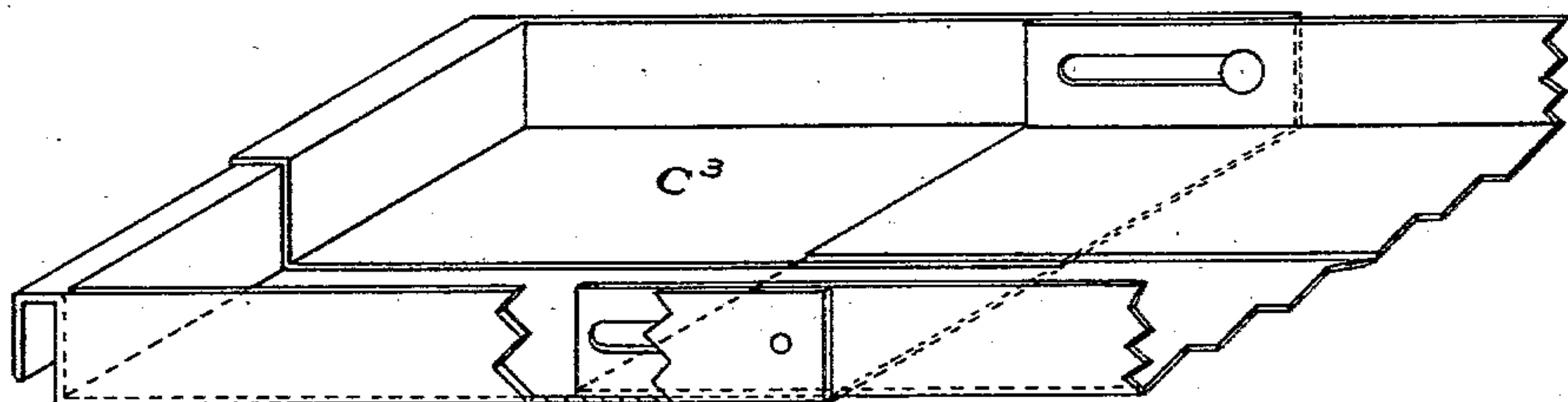
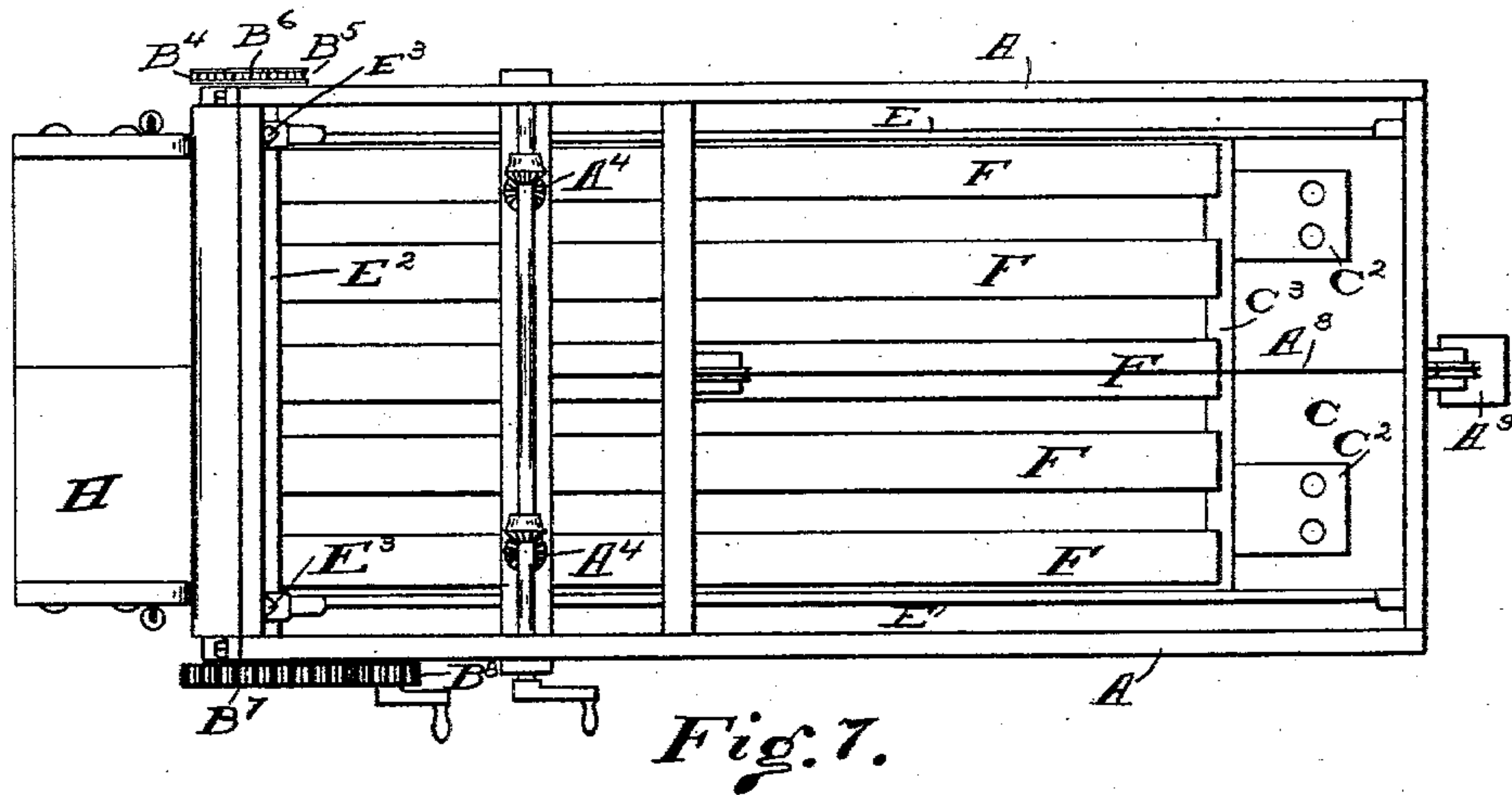
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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

ADAM WUEST, JR., OF CINCINNATI, OHIO.

MATTRESS-FILLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 715,450, dated December 9, 1902.

Application filed January 3, 1902. Serial No. 88,357. (No model.)

To all whom it may concern:

Be it known that I, ADAM WUEST, Jr., a citizen of the United States of America, and a resident of No. 1231 Beech avenue, in the city of Cincinnati, in the county of Hamilton and State of Ohio, (post-office address 217 East Third street, in the city of Cincinnati,) have invented an Improvement in Mattress-Filling Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to mattress-filling machines; and it has for its object the improvement in the construction of such devices whereby they are simplified and rendered more efficient.

The novelty of my invention consists in the combination and subcombination of the parts, as will be hereinafter set forth, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 shows a sectional view of my invention, taken on line 1 1 of Fig. 3. Fig. 2 is a side elevation. Fig. 3 is a front elevation. Fig. 4 is a detail view of the adjustable side piece A⁷. Fig. 5 is a detail, partially in section, showing how press-box is attached to apron. Fig. 6 shows a modification of Fig. 5. Fig. 7 is a plan view. Fig. 8 is a perspective view of press-box. Fig. 9 is a perspective view of guides projecting in front of machine. Fig. 10 is a sectional view showing the position of the rear end of the pan C³ when the pan is in the mattress.

In the drawings, A represents the frame of the machine, which has attached to its upper part at A² a swinging compression-roll A³, so arranged that the distance from A² can be increased or decreased at pleasure by means of the bevel-gears A⁴ and screws A⁵. The swinging compression-roll A³ is provided with a cord A⁸ and weight A⁹, so that when the compression-roll is released from A⁷ it will raise up out of the way. Attached to the compression-roll are two stops A⁶ and A¹⁰, which hold the compression-roll in position when it is down, compressing the filling material. The automatically and vertically adjustable side piece A⁷ is provided with a notch A¹¹, which catches on the stop A¹⁰, the spring A¹² causing the side piece A⁷ to spring up and catch

on A¹⁰. The rolls B, B², and B³ have an apron C passing over them, being rolled and unrolled from the rolls B B², the roll B³ acting as an idler. The apron is provided with a suitable support A¹³. Attached to the apron is an angle-piece C², used for forcing the pan C³ into and extracting it from the ticking. The rolls B and B² have on one end sprocket-wheels B⁴ and B⁵, connected by sprocket-chain B⁶. On the opposite end I provide a gear-wheel B⁷ and pinion B⁸. The side boards E E are arranged to slide on the rods E² and are provided with set-screws E³ for holding the side boards in position. Slats F F F F F are provided for placing on top of the filling before compression. Gates G G are supported by the roll G² and pass down between the rolls B B². Projecting from the front of the machine is a laterally-adjustable guide H, which is automatically adjustable vertically.

The operation of my machine is as follows: The gates are placed in position, the press-box and projecting guides are arranged to suit the size of mattress to be filled, the filling material placed in press-box, the pressure-slats placed on top of filling material, the compression-roll is brought into position to compress the filling material to any thickness desired, the press-box having been set back from gates far enough to get the proper forward compression, (forward compression eliminates soft or weak spots,) the crank attached to the pinion is turned, pushing forward the press-box. When the material has been compressed endwise sufficiently, the gates are removed permitting the filling material to enter the ticking. The ticking having been previously placed on the projecting guides, the press-box passes into the ticking with the filling material. Afterward it is removed by reversing the travel of the apron, leaving the filling material in the ticking.

Having described my invention, what I claim is—

1. The combination in a mattress-filling machine of a laterally and vertically adjustable press-box with a laterally, adjustable, projecting guide which is vertically, automatically adjustable, substantially as described.

2. The combination in a mattress-filling machine of a laterally and vertically, adjust-

able press-box, an adjustable compression-roll, a laterally-adjustable projecting guide which is automatically adjustable vertically, substantially as described.

5 3. The combination in a mattress-filling machine of a laterally and vertically adjustable press-box, arranged to be propelled forward by a traveling apron, an adjustable compression-roll, a laterally, adjustable projecting guide, which is automatically adjustable vertically, substantially as described.

10 4. The combination in a mattress-filling machine of a laterally and vertically adjustable press-box, arranged to be propelled by
15 a traveling apron, winding around rolls, angle-pieces attached to apron, an adjustable

compression-roll, a laterally-adjustable projecting guide which is automatically adjustable vertically, substantially as described.

5. The combination in a mattress-filling machine of a laterally and vertically adjustable press-box, arranged to be propelled by a traveling apron, winding around rolls, angle-pieces attached to apron, an adjustable compression-roll, held in place by automatic catch, a laterally-adjustable projecting guide which is automatically adjustable vertically, substantially as described.

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Witnesses:

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