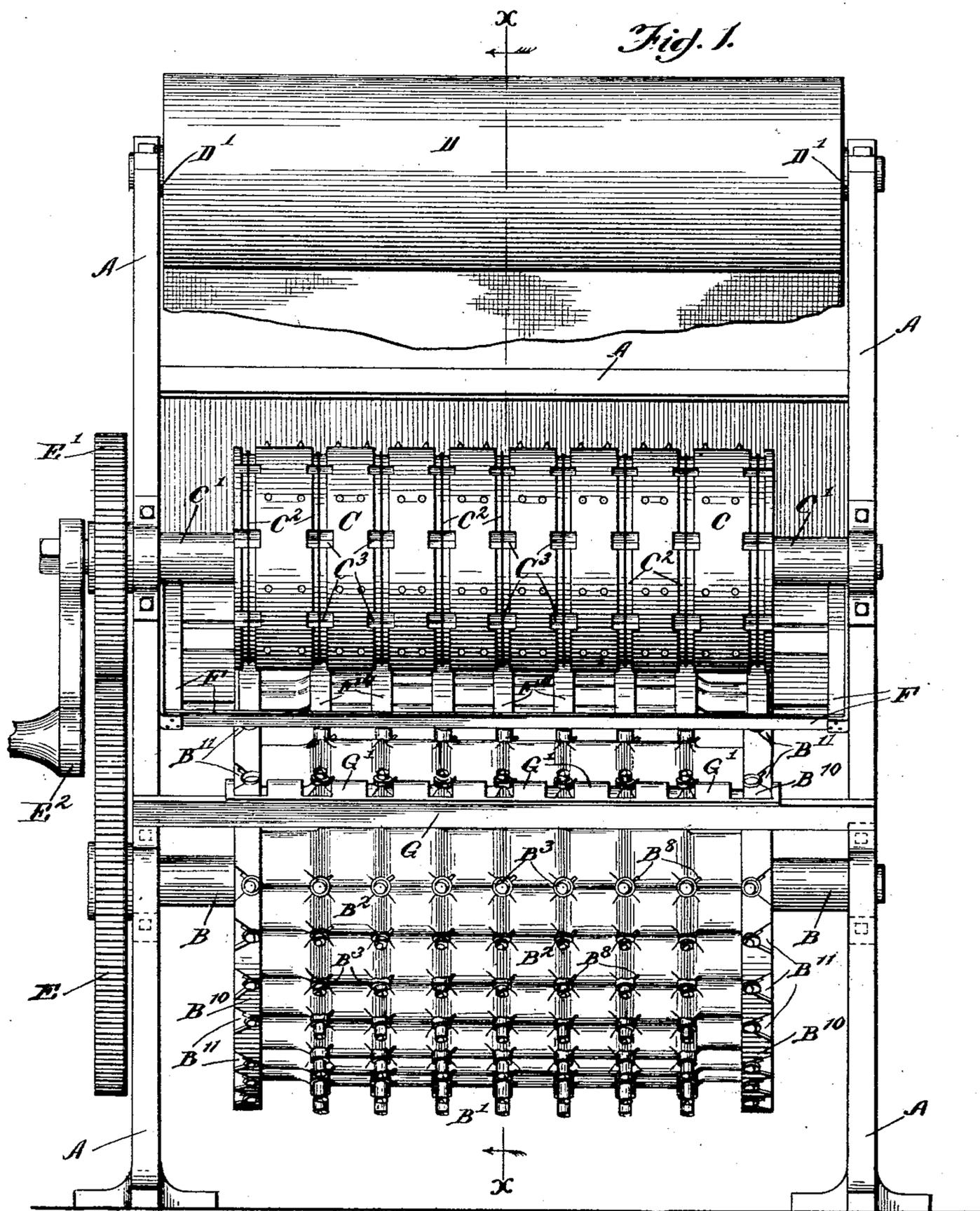


H. C. JONES.
UPHOLSTERING MACHINE.

(Application filed Mar. 21, 1902.)

(No Model.)

4 Sheets—Sheet 1.



Witnesses:
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Inventor:
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 By Luther L. Mullen
 Atty

No. 702,960.

Patented June 24, 1902.

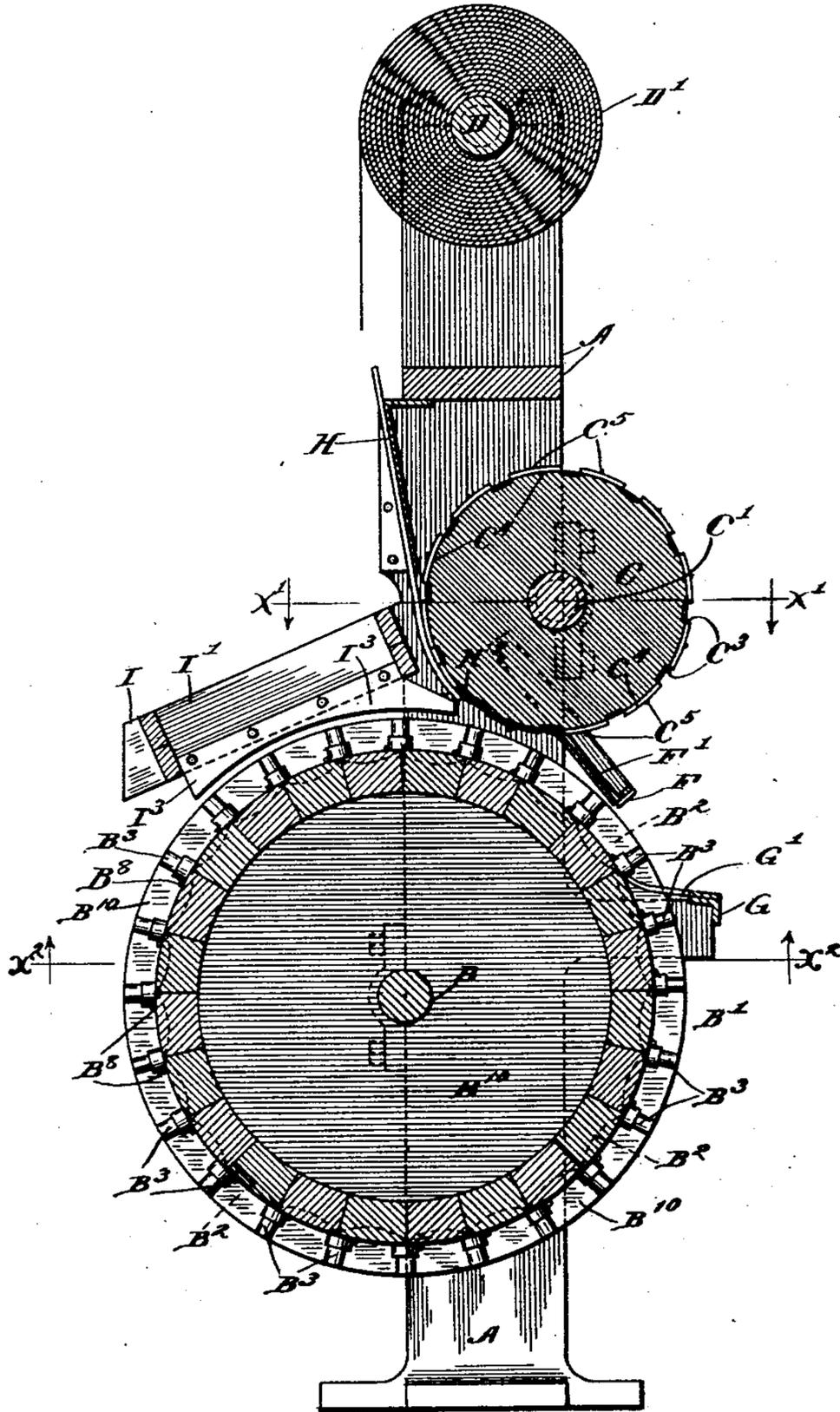
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(No Model.)

4 Sheets—Sheet 2.

Fig. 2.



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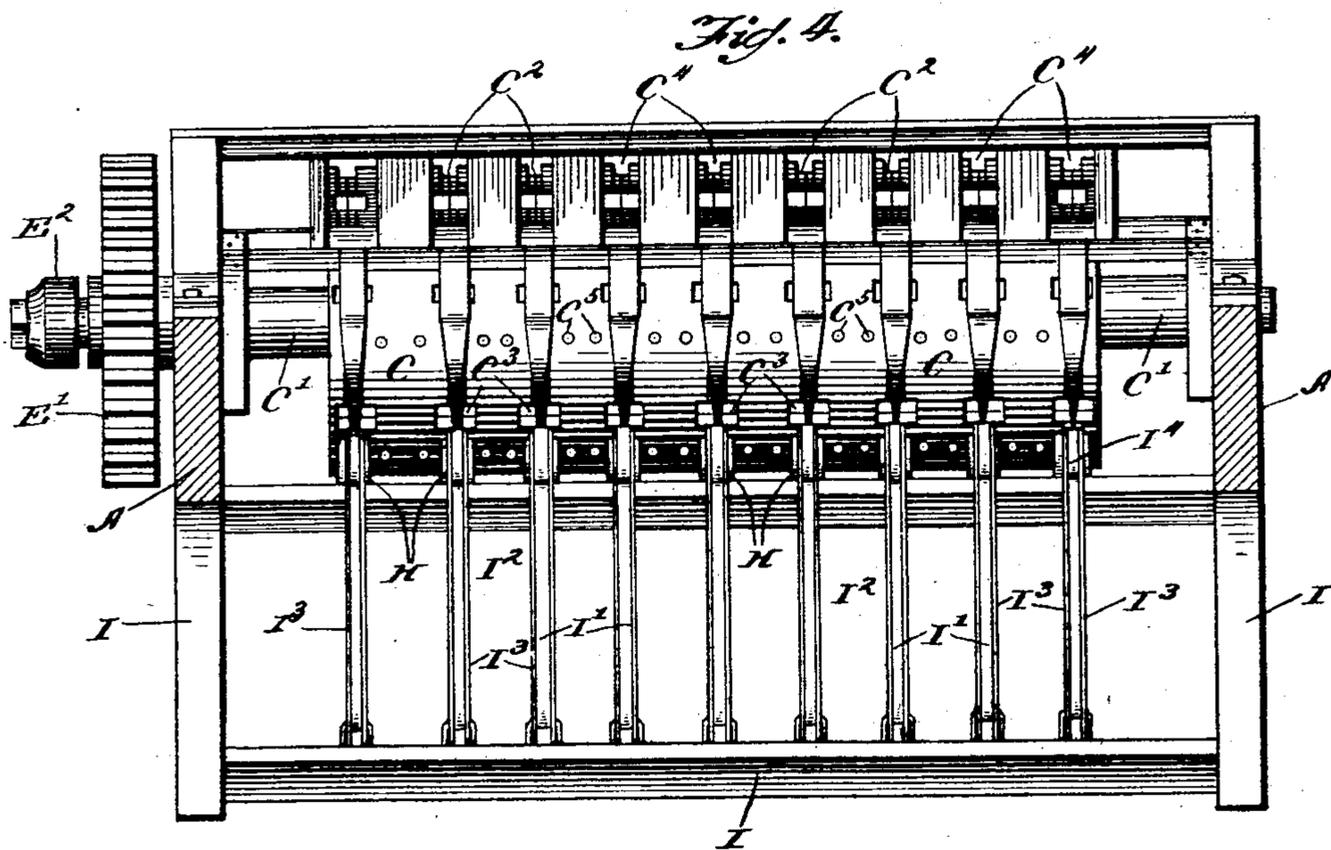
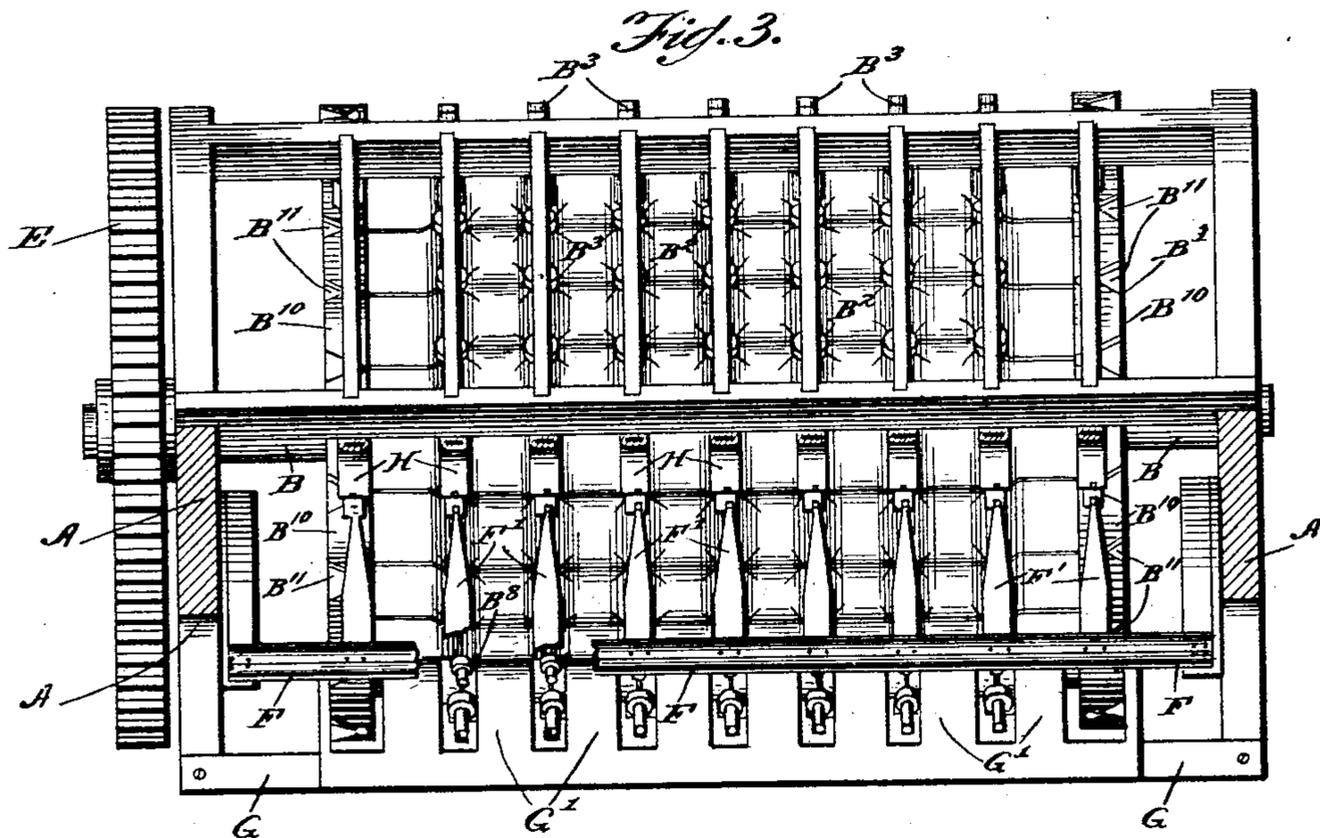
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H. C. JONES.
UPHOLSTERING MACHINE.

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(No Model.)

4 Sheets—Sheet 3.



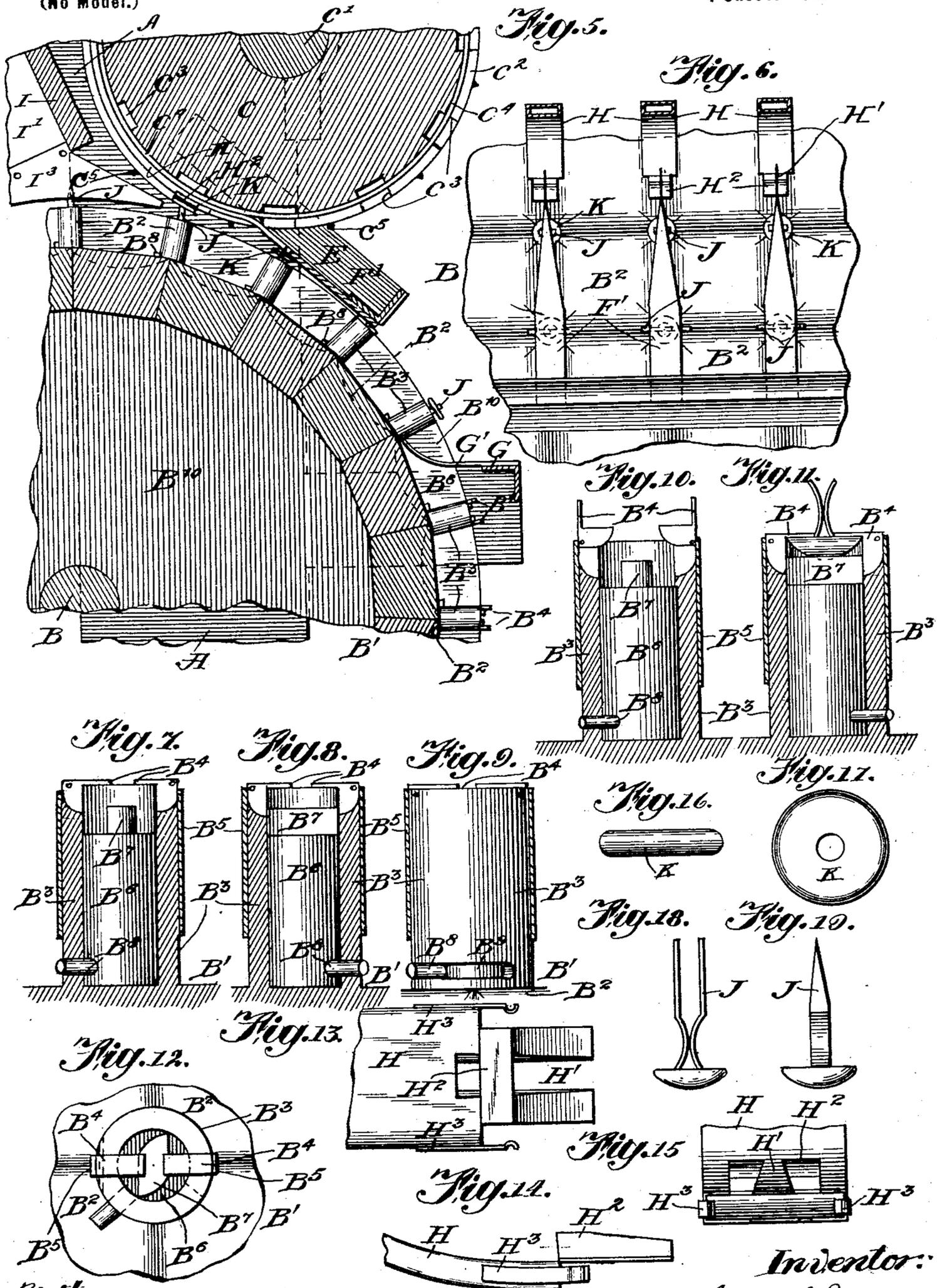
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UNITED STATES PATENT OFFICE.

HERBERT C. JONES, OF CHICAGO, ILLINOIS.

UPHOLSTERING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 702,960, dated June 24, 1902.

Application filed March 21, 1902. Serial No. 99,289. (No model.)

To all whom it may concern:

Be it known that I, HERBERT C. JONES, 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 Upholstering-Machines, of which the following is a specification.

The object of this invention is the production of an improved upholstering-machine for forming, compressing, and joining together the materials to be upholstered.

In the embodiment herein shown of this invention I provide an upright framework on which are journaled two shafts, and upon said shafts I rigidly mount two upholstering-rollers, one above the other, the upper roller being only one-half the diameter of the lower one. The outer ends of these shafts are connected by two intermeshing gear-wheels, the upper gear-wheel being one-half the diameter of the lower one in order that the surfaces of the two rollers may travel at the same rate of speed. The lower upholstering-roller is provided with several circumferential series of button-holders and the frame of the machine with spreading-wedges for opening and clenching the ends of the button-staples that fasten the upholstering fabrics together. The machine at its forward side is provided with compartments for the reception of upholstering material—such as hair, moss, &c.—the covering fabric to be upholstered passing underneath said compartments. The roller for holding burlap or other suitable backing fabric for the upholstering is mounted at the top of the supporting-frame, and the two fabrics and the filling material pass between the two rollers, there to be compressed, formed, and fastened together by the machine.

In the accompanying drawings, Figure 1 is a rear elevation of this machine. Fig. 2 is a transverse vertical section on dotted line xx of Fig. 1. Fig. 3 is a plan view, partly in section, on dotted line $x'x'$ of Fig. 2, the upper upholstering-roller being removed. Fig. 4 is a view on dotted line x^2x^2 of Fig. 2 looking upward, the lower upholstering-roller being removed. Fig. 5 is a vertical section through a portion of the two upholstering-rollers, showing the means of feeding the washers and clenching the button-staples. This view also shows several button-staples in different

stages of the process of clenching. Fig. 6 is a fragmental plan view showing the ends of the washer-feeding tubes and the wedges for clenching the button-staples. Figs. 7 and 8 represent a vertical central section through a button-staple-holding stem, the former view showing the holding-jaws released and the latter showing them locked in position. Fig. 9 is an elevation of a button-holding stem. Figs. 10 and 11 are respectively a vertical central section through a button-staple-holding stem, the former showing the holding-jaws open and the latter showing them closed upon a button-staple. Fig. 12 is a plan view of a button-staple-holding stem. Fig. 13 is an under side view of the lower end of one of the washer-feeding tubes. Fig. 14 is a side view, and Fig. 15 an end view, of one of said tubes. Figs. 16 and 17 are respectively a side elevation and a plan view of the washers, and Figs. 18 and 19 are side elevations of a button-staple.

In the construction of this machine I provide an upright supporting-frame A, upon which, near the lower part thereof, I journal the shaft B and upon said shaft fix the lower upholstering-roller B'. The surface of this roller is provided with rectangular depressions B² for forming the upholstering material, arranged in regular order thereon, and at the angles of said depressions are fixed the button-holding stems B³, extending radially outward from said surface. These button-holding stems are tubular in form, and in their upper ends are pivoted the two opposite L-shaped button-holding jaws B⁴. These jaws are held open by the flat springs B⁵, secured to the sides of the stems B³ and engaging the rear ends of the button-holding jaws B⁴. The tubular stems B³ are each provided with a rotatable core B⁶, having at its upper end the cam B⁷ for holding the button-holding jaws closed when said cam is turned into a certain position. The stud B⁸, formed integral with said core B⁶, projects through an elongated opening B⁹, through the walls of the tubular button-holding stem, and near the lower end thereof.

The button-holding stems of the peripheral series at each end of the roller B' are sunk in openings in the heads B¹⁰ of said roller. They, however, are of a construction identi-

cal with that of the other holders, the releasing-studs B⁸ thereof lying in the notches B¹¹, formed for their reception in said heads B¹⁰ of the roller B'.

5 When the head of a button-staple is pressed into the upper end of the button-holding stem B³, the pivoted jaws B⁴ are thereby turned upon their pivots and closed. The stud B⁸ is turned to rotate the core B⁶ into
10 the position indicated in Figs. 8 and 11. This position of the core causes the cam B⁷ to prevent the opening of the button-holding jaws B⁴, retaining the button-staple between said jaws until said core is rotated to turn the
15 cam B⁷ from engagement with the button-holding jaws B⁴, when the latter are free to turn upon their pivots and permit the withdrawal of the button-staple.

C is the upper upholstering-roller, rigidly
20 mounted on the shaft C'. This roller is provided with peripheral grooves C², each of which grooves coincides with one of the peripheral series of button-holding stems B³ on the lower upholstering-roller B'. At intervals in said grooves are provided the transverse depressions C³, cut somewhat deeper
25 into the face of the upper roller C than the grooves C² for coinciding with the individual button-holding stems B³ of the lower upholstering-roller and providing a space for the spreading of the points of the button-staples. A wire ring C⁴ lies in the bottom of each one of the peripheral grooves C², being fixed in the middle of said grooves, and spurs C⁵, projecting slightly above the surface of the upholstering-roller C, are arranged in longitudinal series thereon. These spurs are to prevent the burlap or other backing material from slipping upon the surface of the upholstering-roller C and to feed said burlap between the two upholstering-rollers B' and C.
40

D is a shaft journaled in the upper portion of the supporting-frame A for carrying the roll of burlap D'.

45 E and E' are two intermeshing gear-wheels fixed on the outer ends of the shafts B' and C, respectively, the former gear-wheel being twice the diameter of the latter. E² is a crank fixed on the shaft C' outside of said gear-wheel E', providing means for driving the mechanism. A pulley may be mounted upon said shaft in place of this crank in case it is desirable to apply other than manual power to the operation of the machine.
50

55 F is a transverse bar extending across the rear side of the machine and at suitable intervals in its length bears the spreading-wedges F', the forward ends of said wedges coinciding with and lying in the peripheral
60 grooves C² of the roller C, being intended to lie in contact with the wire rings C⁴.

G is a second transverse bar extending across the framework A a little below the bar F. It bears the forward projections G', the purpose of which is to engage with the studs B⁸ of the cores B⁶ of the button-holding stems B³ for moving said studs, rotating said cores,
55

and by withdrawing the ends of the cams B⁷ from engagement with the button-holding jaws B⁴ to permit the opening of said jaws
70 and the release of said button-staples.

H is a series of washer-feeding tubes secured to the supporting-frame A, near the upper end thereof, and extending downward to the point between the two upholstering-rollers, where the forward ends of the spreading-wedges F' contact the wire rings C⁴ in the peripheral grooves C². These tubes conform substantially to the curve of the upper upholstering-roller C and are divided at their
75 lower ends, being there provided with the notch H' and the shoe H², the latter lying in the peripheral grooves C² of the roller C and bearing upon the wire ring C⁴ therein. The points of the spreading-wedges F' lie within
80 the notches H'. The springs H³ lying on both sides of each one of said washer-feeding tubes prevent the accidental displacement of the washers through the lower ends of said tubes H, but are flexible enough to permit of said
85 washers being withdrawn by the extending ends of the button-staples as the washers are engaged by the moving button-staples.
90

I is a framework secured to the main frame A at the forward side of the machine. It
95 overlies the lower upholstering-roller B' and has as many partitions I' as said lower roller has peripheral series of button-holding stems B³, which partitions form between them the compartments I² for the reception of the fill-
100 ing material. The lower side of each one of these partitions is provided with the shoe I³, formed of two pieces of sheet metal, one secured to each side of said partition, thus forming a guide-channel I⁴ between the two parts
105 of the shoe. The lower side of these shoes conforms substantially to the circle described by the outer ends of the radial button-holding stems B³, and the said channel I⁴ is adapted to receive the extending ends of the button-staples and retain and guide said button-staples through a portion of the rotation of the lower upholstering-roller B'.
110

J is a button-staple, and K is a washer, by means of which staple and washer the upholstering materials are fastened together.
115

In the operation of this machine button-staples are placed in the outer ends of the button-holding stems B³ at a point in the lower upholstering-roller below the frame-
120 work I and secured therein by turning the holding-jaws B⁴ downward against the under side of the head of said button-staples, locking said holding-jaws in position by moving the stud B⁸ in the elongated opening B⁹, thereby rotating the core B⁶ and turning the ends of the cam B⁷ into engagement with the inner sides of the button-holding jaws B⁴. The covering fabric is then spread upon the periphery of said roller B' with its "right side"
125 toward said roller and the button-staples forced through said fabric at their proper positions. The roller B' is rotated until said covering fabric lies under the framework I.
130

Upholstering material, such as hair or moss, is placed in the compartments I² in said framework I, washers are fed into the tubes H, and burlap from the roll D' is drawn downward and forced over the upwardly-projecting ends of the front transverse row of button-staples J on the roller B'. The roller B' is again rotated, turning the points of the foremost transverse row of button-staples into the central openings of the washers K and as said rotation continues drawing said washers from the tubes H and driving the button-staples against the forward ends of the spreading-wedges F', at the same time forming and compressing the filling material between the two thicknesses of fabric and between the upper and the lower upholstering-rollers C and B', respectively. The continued rotation of the rollers B' and C flattens the outward ends of the staples against the rear ends of the spreading-wedges, clenching said button-staples firmly upon the washers K. When the rotation of the lower roller B' carries the studs B⁸ of the cores B⁶ into contact with the projections G', said cores are rotated and the cams B⁷ at their upper ends turned from engagement with the inner sides of the button-holding jaws B⁴, releasing the button-staples and permitting the upholstered fabric to be withdrawn from the upholstering-roller B'. The course of each button-staple after being placed between the holding-jaws B⁴ is through one of the guide-channels I⁴ into the notch H' of the washer-feeding tube H, where the two-part point of the button-staple enters the central opening of a washer, immediately is divided by the wire ring C⁴ and passes upon the spreading-wedge F', which as the button-staple continues to move spreads the points of the latter tightly down upon the washer K. The staples, now holding the upholstered fabric closely against the series of holding-stems B³, are rotated until the studs B⁸ are engaged by the projections G', when the holding-jaws B⁴ release the buttons of the button-staples. The springs B⁵ hold the jaws B⁴ open until the rotation of the roller B' brings the button-staple holders in position again to be supplied with button-staples, which staples are inserted into said stems B³ by pressing the heads of the staples into position. This pressure throws the jaws B⁴ together, and by turning the stud B⁸ in the opening B⁹ the said jaws are firmly locked in place.

55 Filling material is supplied to the compartments I² as it is exhausted therefrom.

I claim as my invention—

1. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for the means for securing together the materials to be upholstered; means for releasing said holding mechanism; and means for rotating said upholstering-rollers.

2. In an upholstering-machine, in combina-

tion, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for the means for securing together the materials to be upholstered; a series of compartments for containing the filling material; means for releasing said holding mechanism; and means for rotating said upholstering-rollers.

3. In an upholstering-machine, in combination, a supporting-frame; means for feeding forward the upholstering materials; a series of button-staple holders; a washer-feeding tube adapted to deliver washers at a point adjacent to said button-staple holders, which tube has a notch in its lower end and a holding-spring for the washers; and means for spreading the prongs of the button-staples.

4. In an upholstering-machine, in combination, a supporting-frame; means for feeding forward the upholstering materials; a series of button-staple holders; a washer-feeding tube adapted to deliver washers at a point adjacent to said button-staple holders, which tube has a notch in its lower end, a bearing-shoe and two holding-springs for the washers; and means for spreading the prongs of the button-staples.

5. In an upholstering-machine, in combination, a supporting-frame; means for feeding forward the upholstering materials; a series of button-staple holders; a washer-feeding tube adapted to deliver washers at a point adjacent to said button-staple holders, which tube has a notch in its lower end, a bearing-shoe, and two holding-springs for the washers; and a spreading-wedge whose point lies in the notch in the lower end of the washer-feeding tube.

6. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for a button-staple; the stationary framework having a guide-channel for the button-staple; a washer-feeding tube adapted to deliver a washer at a point adjacent to the end of said guide-channel; means for clenching said button-staple; and means for rotating said upholstering-rollers.

7. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for a button-staple; means for clenching said button-staple; and means for releasing said holding mechanism.

8. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for button-staples; a series of compartments for containing the filling material, having partitions between them, each of which partitions has a channel for guiding the button-staples; a washer-feeding tube adapted to deliver a washer at a point

adjacent to the end of one of said channels; means for clenching said button-staples; and means for rotating said upholstering-rollers.

9. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; a series of button-staple holders arranged peripherally upon one of said upholstering-rollers; means on the supporting-frame for clenching a button-staple; and means for releasing said holding mechanism.

10. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them, the lower one of which rollers has a series of button-staple holders; means for clenching the button-staples; and means for releasing the holding mechanism.

11. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for the means for securing together the materials to be upholstered; a washer-feeding tube adapted to deliver a washer at a point adjacent to said holding mechanism; means for releasing said holding mechanism; and means for rotating said upholstering-rollers.

12. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for a button-staple; a washer-feeding tube adapted to deliver a washer at a point adjacent to said holding mechanism; means for clenching the button-staple; means for releasing said holding mechanism; and means for rotating said upholstering-rollers.

13. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them, the lower one of which rollers has a series of button-staple holders; a series of washer-feeding tubes adapted to deliver a washer at a point adjacent to said button-staple holders; means secured to the supporting-frame for clenching the button-staples; means for releasing said button-staple holders; and means for rotating said upholstering-rollers.

14. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; a series of button-staple holders on the lower one of said rollers; a series of washer-feeding tubes adapted to deliver a washer at a point adjacent to one of said button-staple holders; a clenching device near the end of said washer-feeding tubes; means for releasing said button-staple holders; and means for rotating said rollers.

15. In an upholstering-machine, in combination,

a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; a roll journaled on the supporting-frame for one of said upholstering materials, the lower one of which upholstering-rollers has a series of button-staple holders, the other of which upholstering-rollers has a series of peripheral grooves for receiving the ends of the button-staples; a series of washer-feeding tubes adapted to deliver washers at a point adjacent to said button-staples; means secured to the supporting-frame for clenching the button-staples; means for releasing said button-staple holders; and means for rotating said upholstering-rollers.

16. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them, the lower one of which upholstering-rollers has a series of button-staple-holding stems provided with pivoted holding-jaws; means for locking said jaws; the other of which upholstering-rollers has a series of peripheral grooves for receiving the ends of the button-staples; a series of washer-feeding tubes adapted to deliver washers at a point adjacent to said button-staple-holding stems; a series of spreading-wedges adapted to lie in the peripheral grooves of the last-mentioned upholstering-roller; a series of projections extending from the supporting-frame, for releasing the holding-jaws for the button-staples; and means for rotating said upholstering-rollers.

17. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them, the lower one of which upholstering-rollers has a series of radially-extending button-staple-holding stems provided with pivoted holding-jaws; a cam for said jaws; a stud for moving said cam; the other of which upholstering-rollers has a series of peripheral grooves for receiving the ends of the button-staples; a series of washer-feeding tubes adapted to deliver washers at a point adjacent to said button-staple-holding stems; a series of spreading-wedges secured to the supporting-frame, for clenching the button-staples; a series of projections extending from the supporting-frame, for engaging the studs which operate the cams for the holding-jaws; and means for rotating said upholstering-rollers.

18. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them, the lower one of which upholstering-rollers has a series of radially-extending button-staple-holding stems; pivoted holding-jaws for said stems; a cam for holding said jaws closed; a rotatable core for said stem; a stud fixed with relation to said core, which stud extends outward through an opening in the side of said

stem; the other of which upholstering-rollers has a series of peripheral grooves; spurs on the surface of said last-mentioned roller; a series of washer-feeding tubes adapted to deliver washers at a point adjacent to said button-staple-holding-stems; a series of spreading-wedges secured to the supporting-frame, for clenching the button-staples; a series of projections extending from the supporting-frame, for engaging the stud extending from the button-staple-holding stems; and means for rotating said upholstering-rollers.

19. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them, the lower one of which upholstering-rollers has a series of radially-extending button-staple-holding stems; two pivoted holding-jaws in each of said stems; cams for holding said jaws closed; cores within said stems; a stud extending through an opening in the side of each of said stems, for moving each of said cams; the other of which upholstering-rollers has a series of peripheral grooves for receiving the ends of the button-staples; a framework for holding the filling material, which framework is provided with partitions, each of which partitions has a guide-channel at its lower edge; a series of washer-feeding tubes adapted to deliver washers at a point adjacent to the end of said guide-channel; a series of spreading-wedges secured to the supporting-frame, for clenching the button-staples; a series of projections extending from the supporting-frame, for engaging the studs extending through openings in the sides of the button-staple-holding stems, to release the button-staples from their holding-jaws; and means for rotating said upholstering-rollers.

20. In a button-staple-holding mechanism, in combination, a holding-stem; a jaw thereon; a cam for holding said jaw in a closed position; and means for moving said cam.

21. In a button-staple-holding mechanism, in combination, a holding-stem; two jaws pivotally mounted thereon; a cam for holding said jaws closed; and means for moving said cam.

22. In a button-staple-holding mechanism, in combination, a holding-stem; two jaws pivotally mounted thereon; a cam for holding said jaws closed; a spring for holding each of said jaws open; and means for moving said cam.

23. In a button-staple-holding mechanism, in combination, a holding-stem; two jaws pivotally mounted thereon; a cam for holding said jaws closed; and a stud for rotating said cam.

24. In a button-staple-holding mechanism, in combination, a holding-stem; two L-shape jaws pivotally mounted thereon; a cam for engaging the inner ends of said jaws; a core adapted to lie within said stem; and a stud fixed with relation to said core.

25. In a button-staple-holding mechanism,

in combination, a holding-stem in tubular form, having an elongated opening near one of its ends; two L-shape jaws pivotally mounted on opposite sides of said stem near one end thereof; a cam for engaging the inner ends of said jaws and holding them closed; a core for said stem; and a stud fixed with relation to said core, extending through the elongated opening in said stem.

26. In an upholstering-machine, in combination, a supporting-frame; an upholstering-roller journaled thereon; means for rotating said roller; holding mechanism for the button-staples; means for guiding said button-staples; and a spreading-wedge adapted to enter between the prongs of said button-staples during the forward movement of the upholstering materials to spread said points and clench said staples.

27. In an upholstering-machine, in combination, a supporting-frame; two upholstering-rollers journaled thereon and adapted to pass the upholstering materials between them; holding mechanism for a button-staple; a clenching-wedge lying in the path of said button-staple, the point of said clenching-wedge being adapted to enter between the prongs of said button-staple to spread said prongs and clench said staple; means for rotating said upholstering-rollers; and means for releasing said holding mechanism.

28. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces adapted to move in the same direction; means for moving said upholstering-surfaces; holding mechanism for the means for securing together the materials to be upholstered; and means for releasing said holding mechanism.

29. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces adapted to move in the same direction; means for moving said upholstering-surfaces; holding mechanism for the means for securing together the materials to be upholstered, which holding mechanism is movable in the direction of travel of the upholstering materials; and means for releasing said holding mechanism.

30. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces adapted to move in the same direction; means for moving said upholstering-surfaces; holding mechanism for the means for securing together the materials to be upholstered, which holding mechanism is secured to one of said upholstering-surfaces; and means for releasing said holding mechanism.

31. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces adapted to move in the same direction; means for moving said upholstering-surfaces; button-staple holders; and means for releasing said button-staple holders.

32. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces adapted to move in the same di-

rection; means for moving said upholstering-surfaces; button-staple holders movable in the direction of travel of the upholstering materials; and means for releasing said button-staple holders.

33. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces adapted to move in the same direction; means for moving said upholstering-surfaces; button-staple holders secured to one of said upholstering-surfaces; and means for releasing said button-staple holders.

34. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces adapted to move in the same direction, one of which surfaces is inclined at an angle with the other; means for holding the securing means; means for fixing the securing means to permanently fasten the upholstering materials together; means for releasing said holding means; and means for moving said upholstering-surfaces.

35. In an upholstering-machine, in combination, a supporting-frame; two movable upholstering-surfaces, one of which is inclined at an angle with the other; means for holding the securing means; means for engaging the securing means employed to fasten the upholstering materials together; means for releasing said holding means; and means for moving said upholstering-surfaces.

36. In an upholstering-machine, in combination, a supporting-frame; two upholstering-surfaces, one of which is inclined at an angle with the other; a spreading-wedge mounted upon the supporting-frame and adapted to clench the button-staples employed

to fasten the upholstering materials together; mechanism for holding the securing means; means for releasing said holding mechanism; and means for moving said upholstering-surfaces to compress the upholstering materials between them.

37. In an upholstering-machine, in combination, a supporting-frame; an upholstering-roller journaled thereon; means for rotating said roller; holding mechanism for the button-staples; means for guiding said button-staples during the continuous forward movement of the upholstering materials.

38. In an upholstering-machine, in combination, a supporting-frame; an upholstering-roller journaled thereon; means for rotating said roller; holding mechanism for the button-staples; means for guiding said button-staples, which means comprises guide-channels formed in a portion of the supporting-frame; and means for clenching said button-staples during the continuous forward movement of the upholstering materials.

39. In an upholstering-machine, in combination, holding means for the device for securing the upholstering materials together; means for feeding continuously forward said upholstering materials and for moving the holding means with said materials; and means for fixing the securing device to unite said upholstering materials during their continuous forward movement.

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Witnesses:

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