

A. CHATELAIN.
WALL PAPERING MACHINE.
APPLICATION FILED JAN. 21, 1908.

903,672.

Patented Nov. 10, 1908.

2 SHEETS—SHEET 1.

Fig. 1.

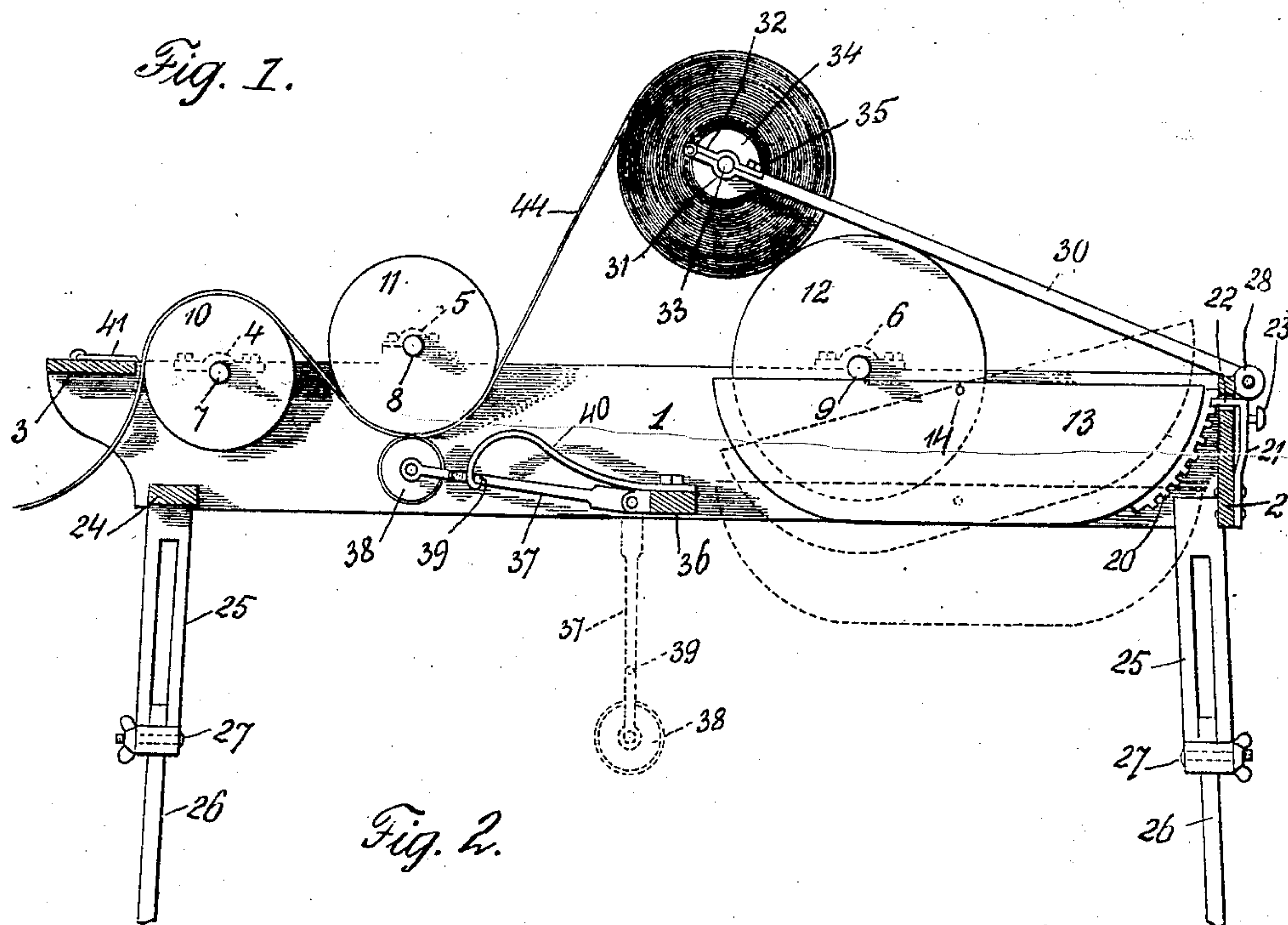
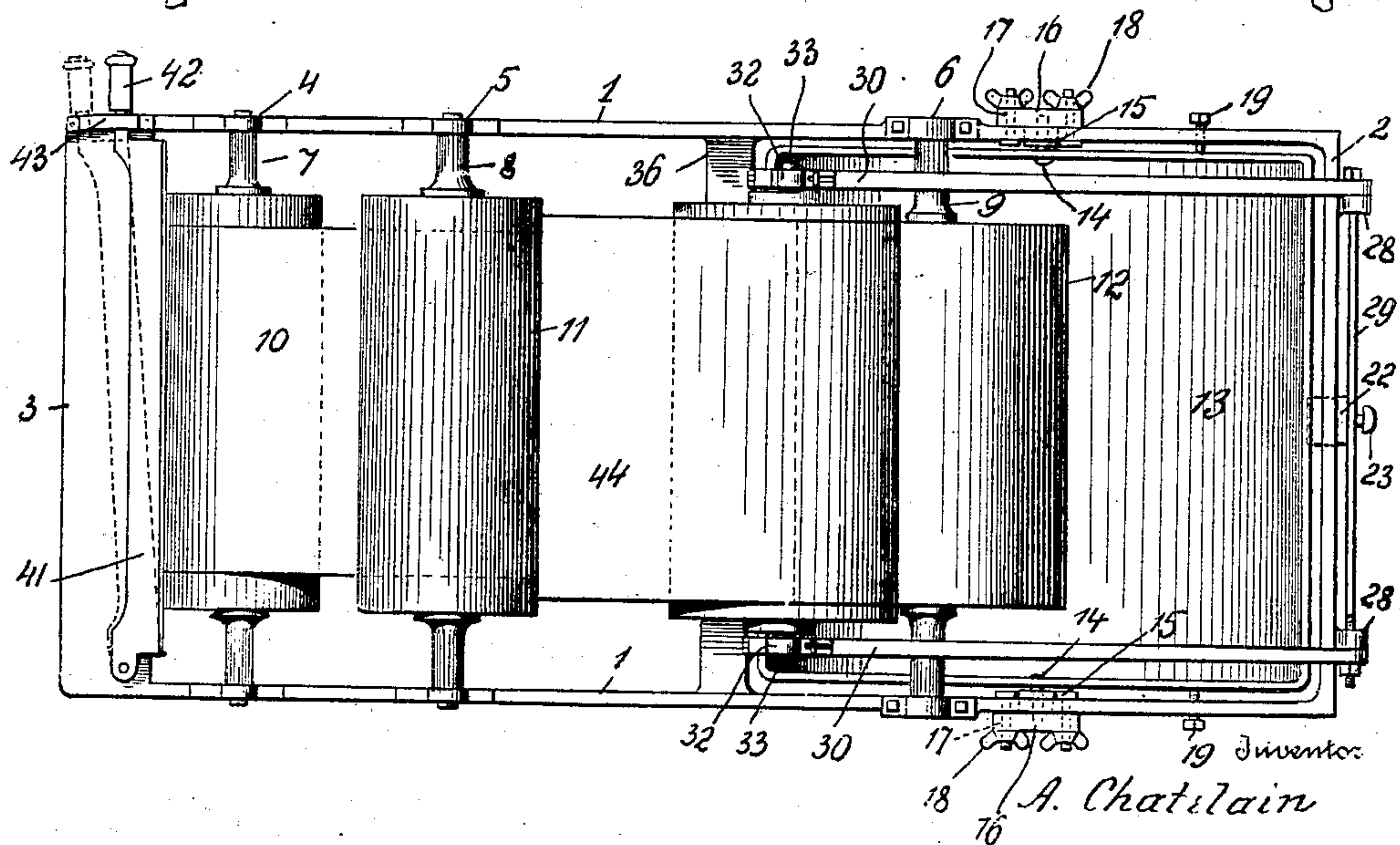


Fig. 2.



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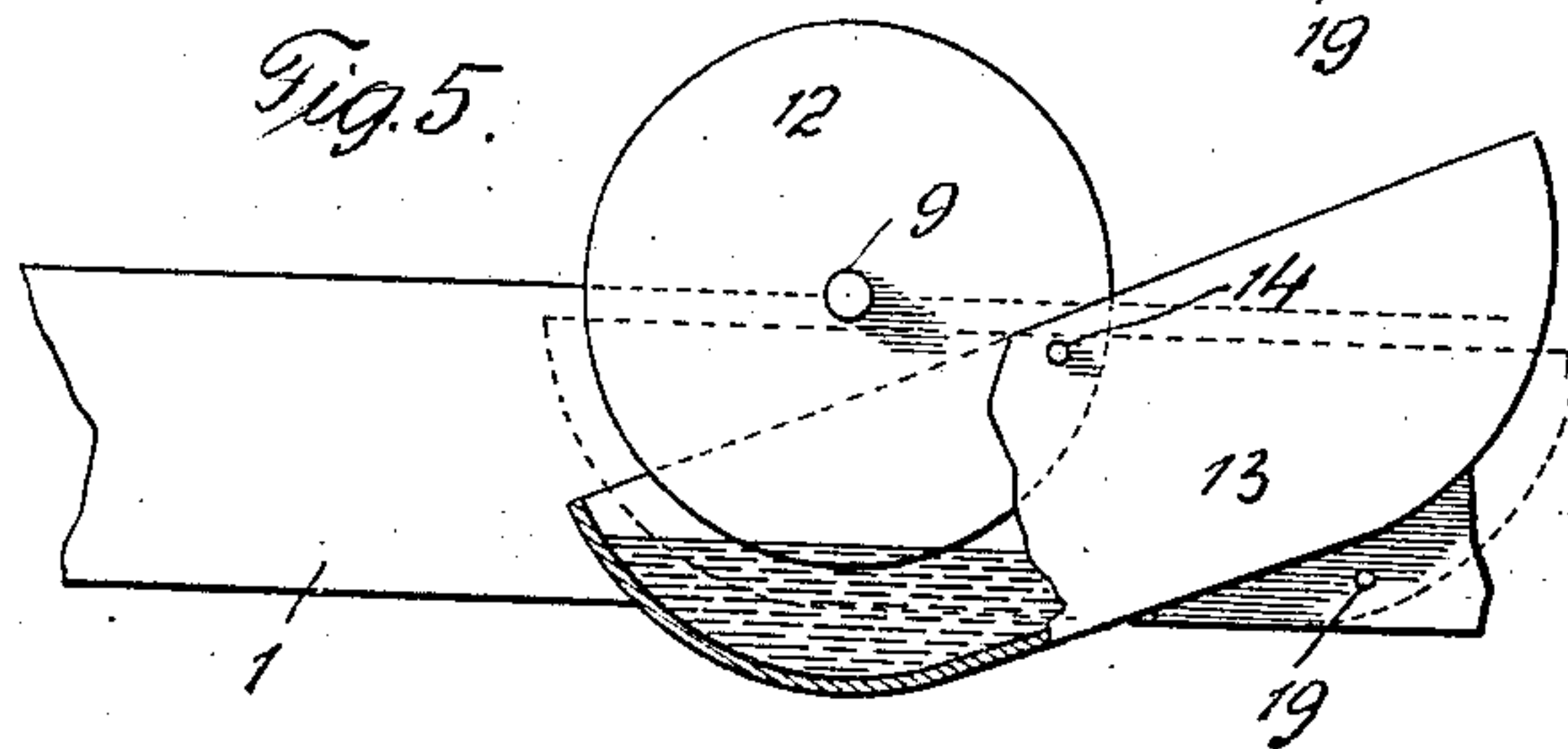
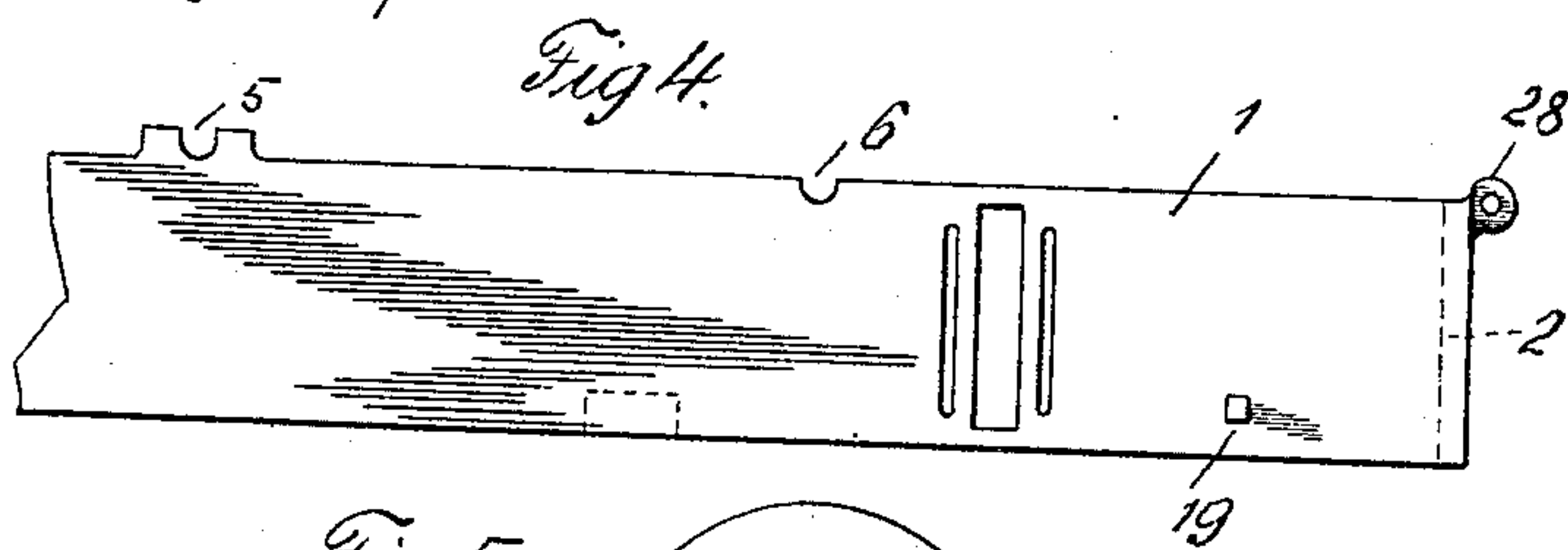
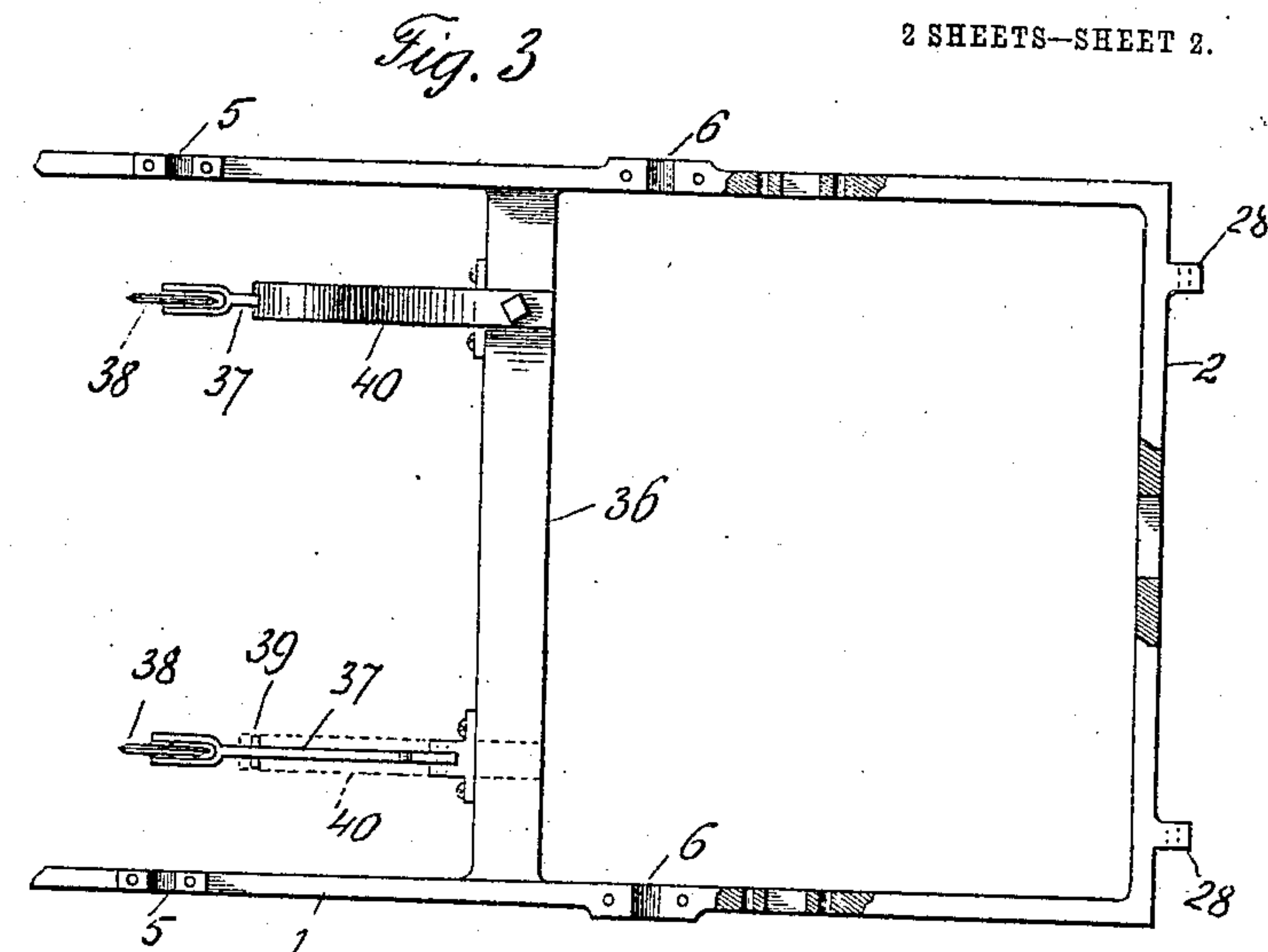
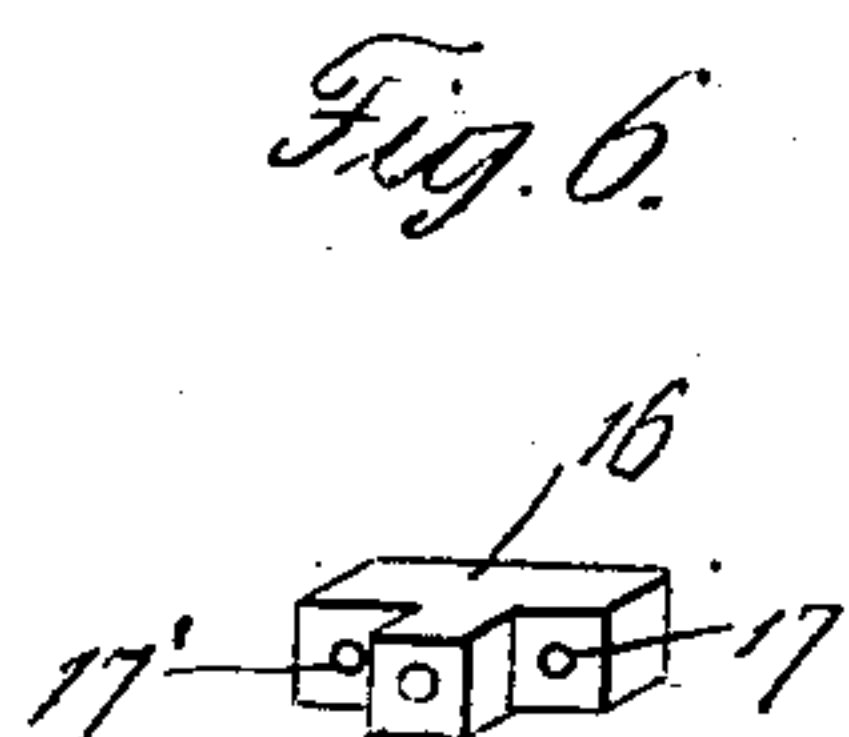
Attorney

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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ALFRED CHATELAIN, OF BUTLER, PENNSYLVANIA.

WALL-PAPERING MACHINE.

No. 903,672.

Specification of Letters Patent.

Patented Nov. 10, 1908.

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To all whom it may concern:

Be it known that I, ALFRED CHATELAIN, a citizen of the United States of America, residing at Butler, in the county of Butler and State of Pennsylvania, have invented certain new and useful Improvements in Wall-Papering Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to wall-papering machines, and its primary object is to provide an effective apparatus for applying paste to the wall-paper, for trimming the edges of the paper and for severing the paper transversely.

15 A further object of the invention is to provide a machine of the character indicated having vertically adjustable legs, adapting it for papering hall-ways, and ceilings of varying elevations.

20 The construction of the improvement will be fully described hereinafter, in connection with the accompanying drawing which forms a part of this specification, and its features of novelty will be set forth in the appended claims.

25 In the drawing:—Figure 1 is a longitudinal vertical section of a machine embodying the invention, Fig. 2 is a top plan view of the same, Fig. 3 is a plan of a portion of the frame of the machine, Fig. 4 is an elevation of the same, Fig. 5 is a similar view showing the paste tank tilted, and, Fig. 6 is a perspective view of a clamping plate.

30 The frame of the machine comprises parallel side-bars 1, and end bars 2 and 3.

The side bars are provided with bearings 4, 5 and 6 supporting the shafts 7, 8 and 9 of rollers 10, 11 and 12.

35 Pivottally supported between the side bars 1, is a paste reservoir or tank 13, said tank being supported by pivot bolts 14 extending through the sides of the tank 13, and into clamping plates 16; said plates are provided with perforations 17; through which and the bars 1, the clamping screws 17 extend, the latter are provided with heads 15, positioned on the inner sides of the frame bars 1 of the machine and are held by nuts 18 and serve to secure the paste tank at different adjustments. Set screws 19 extend through the side bars 1 and bear against the opposite sides of the tank 13, when the tank is posi-

tioned at or near its lowermost adjustment and said screws secure the tank in the position to which it has been pivotally moved. 55

To the front portion of the bottom of the paste tank is secured a segmental rack 20, the teeth of which are adapted to be engaged by a spring dog 21, secured centrally on its lower end to the bar 2 and having its bent upper free end 22 extending through a slot in the end bar 2. This dog is provided with a projecting button or finger piece 23 to facilitate its being disengaged from the rack 20. The rack and dog secure the tank in its various tilted positions, as will be apparent, when the tank is in engageable adjustment. 60 65

Depending from the end bar 2 and from a cross bar 24 of the frame are longitudinally slotted supports 25 formed at their lower ends with openings to receive the upper ends of the adjustable legs 26 secured by bolts 27 extending through openings in the legs and supports. 70 75

Supported in bearings 28 projecting from the end bar 2 of the machine frame, is a shaft 29 upon which are pivotally supported two parallel arms 30, extending over the shaft 9 of the roll 12 and formed at their free ends with shaft bearings 31, coöperating with plates 32, hinged to said arms, and formed with half bearings to provide bearings for a shaft 33 upon which is mounted the feed roll 34 upon which the wall paper is wound. These hinged plates 32 are secured by bolts or screws 35. 80 85

Pivottally secured to a cross bar 36 connecting the sides 1 of the frame, are parallel arms 37 each having a trimming wheel 38 mounted at its outer end and a laterally projecting pin 39 adapted to be engaged by a hooked spring 40 secured to the cross-bar 36. 90

Pivottally secured at one end upon the upper side of the cross-bar 3 is a severing knife 41 having a handle 42 at its free end supported within a guard or keeper 43. 95

The operation of the machine constructed as thus described is as follows: Paste is supplied to the tank 13, and the roller 12 as shown, projects into said tank and transfers the paste to the paper 44, wound upon the roll 34. From the roll 34, the paper passes under the roll 11, and thence over the roll 10. The rotary trimming cutters 38 are held against the paper by the springs 40 thus 100 105

trimming or severing the edges of the paper against the roll 11 which is of zinc or other soft material. The knife is employed to cut the paper transversely into the desired lengths. By adjusting and tilting the paste tank as illustrated by dotted lines in Fig. 1, the entire contents of the tank may be utilized; it being noted that the dual retaining means, consisting of the screws 19 and the rack and dog, positively position the tank at all points of its pivotal movement, and during any vertical adjustment of the same by the clamping plates. It will be seen that with the tank filled or nearly filled with paste, the position of the same in its lowest position shown in dotted lines in Fig. 1 will position the roller 12 so as to slightly enter said paste receptacle and the screws 19 will be employed to secure the tank in any desired tilted position. As the paste in the tank lowers, the tank is raised by vertical adjustment of the clamping plates 16. With the tank in an elevated plane, the rack and dog will be serviceable in securing the tank in tilted position. When the trimmers 38 are not required for use they may be dropped to the position shown by dotted lines in Fig. 1, by disengaging the springs 40 from the pins 39. The roll of paper 44 rests upon the paste applying roll 12, and drops by gravity as the diameter of the roll of paper decreases. It will be understood that the paper is drawn forward by hand. The adjustability of the legs 26 permits the end of the frame to be supported from different levels as in papering above stair ways, etc.

Having fully described my invention what I claim as new and desire to secure by Letters Patent, is,

1. In a wall papering machine, the combination with a pivoted paste receptacle, of a paste applying roll projecting into said receptacle, a paper supporting roll suspended above said paste applying roll, supplemental rolls for guiding the paper means for trimming the edges of the paper as it is unwound from its roll, means for vertically adjusting said pivoted receptacle and means for securing the same in a tilted position.

2. In a wall papering machine, the combination with a pivoted paste receptacle, of a paste applying roll projecting into said receptacle, a paper supporting roll suspended above said paste applying roll, supplemental rolls for guiding the paper and means for trimming the edges of the paper as it is unwound from its roll, comprising pivoted arms, rotary cutters mounted at the ends of said arms, a roller between which and said

rotary cutters the paper passes, means for vertically adjusting said pivoted receptacle and means for securing the same in a tilted position.

3. In a wall papering machine, the combination with a pivoted paste receptacle, of a paste applying roll projecting into said receptacle, a paper supporting roll suspended above said paste applying roll, supplemental rolls for guiding the paper and means for trimming the edges of the paper as it is unwound from the roll, comprising pivoted arms, rotary cutters carried thereby, a roller of soft metal between which and said rotary cutters the paper passes means for holding said rotary cutters in working position, means for vertically adjusting said pivoted receptacle and means for securing the same in a tilted position.

4. In a wall papering machine, the combination with a paste receptacle, of a paste applying roll projecting into said receptacle, a paper supporting roll suspended above said paste applying roll, supplemental rolls for guiding the paper, and means for trimming the edges of the paper as it is unwound from the roll, comprising pivoted arms, rotary cutters carried thereby, a roller of soft metal between which and said rotary cutters, the paper passes and means for holding said rotary cutters in working position, comprising pins projecting from said arms and springs detachably secured to said pins.

5. In a wall papering machine, the combination with a frame, of longitudinally adjustable legs secured thereto a pivoted paste receptacle, a paste applying roller, projecting into said receptacle, a paper supporting roll resting on said paste-roll and means for supporting said paper supporting roll, comprising pivoted arms provided with bearings at their free ends.

6. In a wall papering machine, the combination with a frame, of longitudinally-adjustable legs secured thereto a pivoted paste receptacle, a paste applying roller projecting into said receptacle, a paper supporting roll resting on said paste roll, and means for supporting said paper roll, comprising pivoted arms provided with bearings at their free ends, and hinged plates forming parts of said bearings.

In testimony whereof I affix my signature in the presence of two witnesses.

ALFRED CHATELAIN.

Witnesses:

MAX H. SROLOVITZ,
C. V. BROOKS.