

No. 746,585.

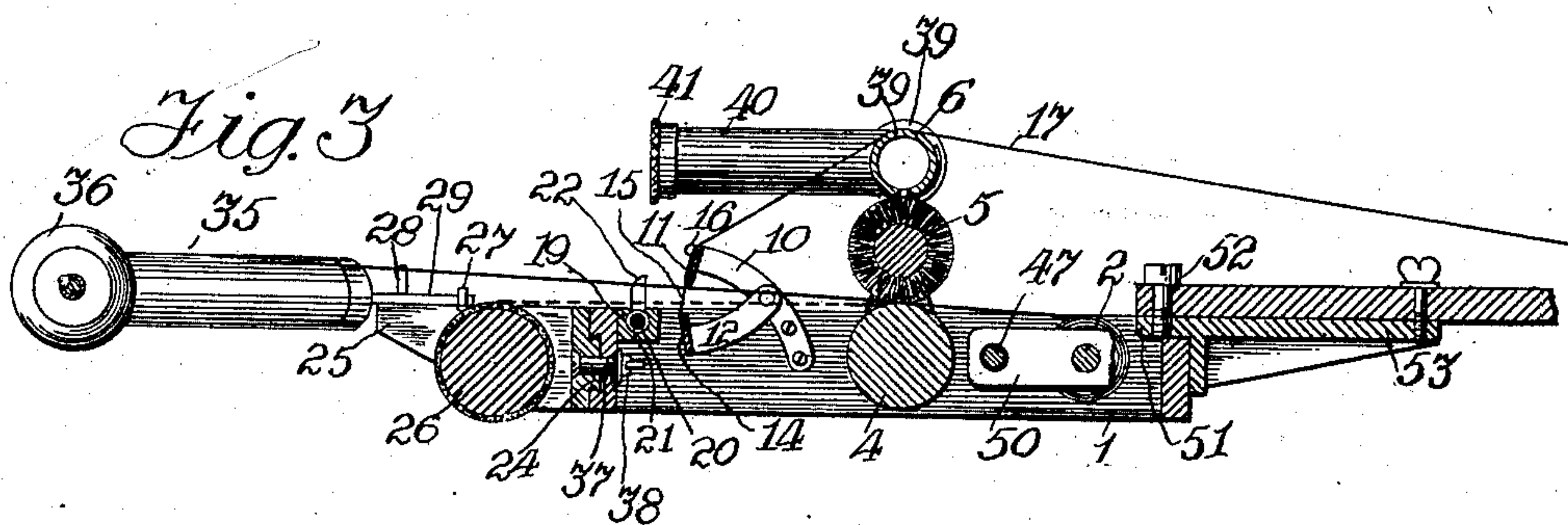
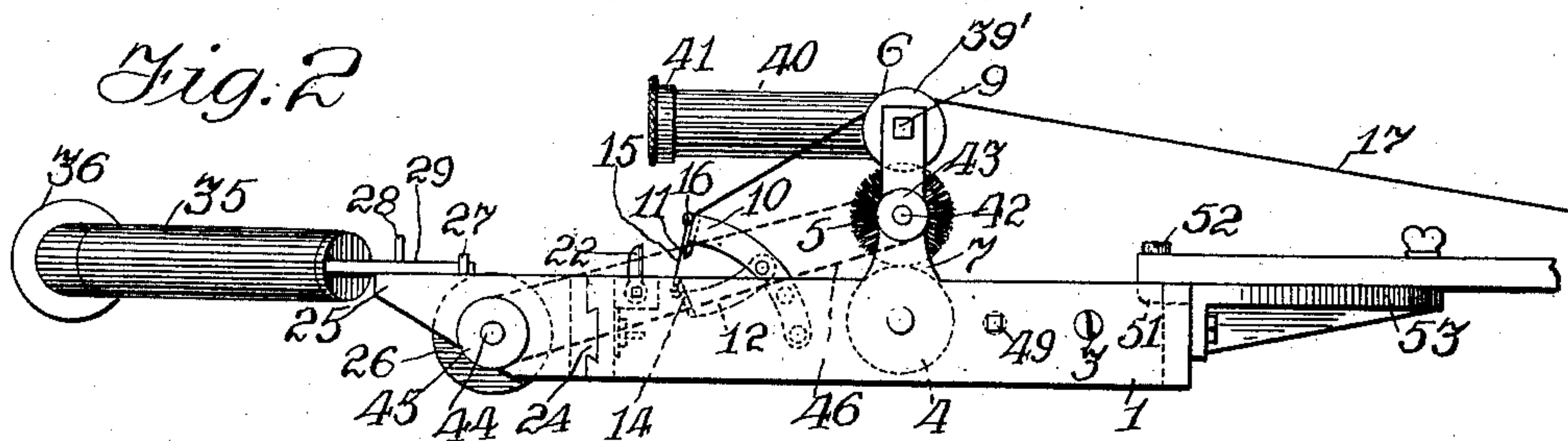
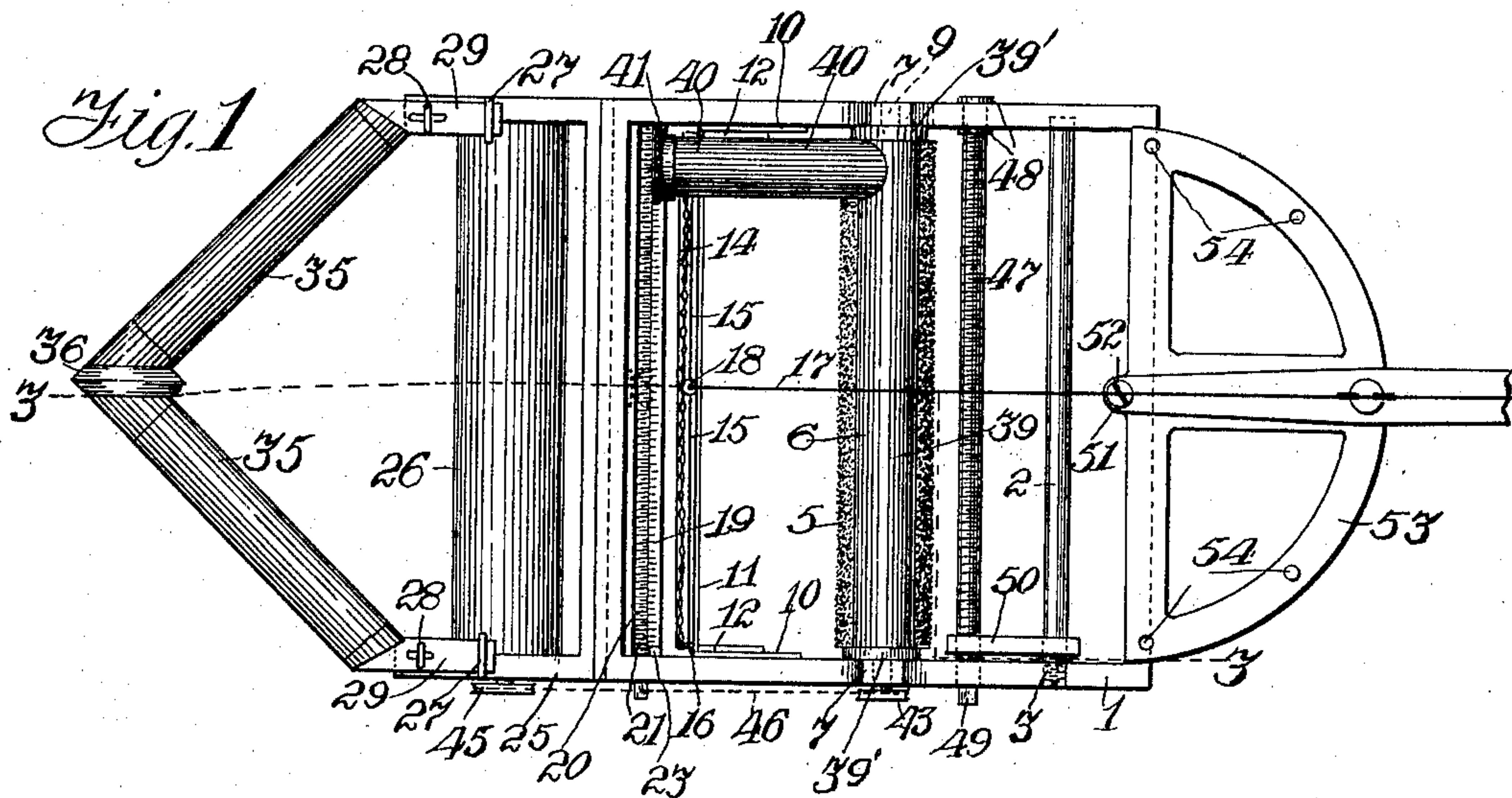
PATENTED DEC. 8, 1903.

J. K. C. SCHEER.
WALL PAPERING MACHINE.

APPLICATION FILED MAR. 18, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:
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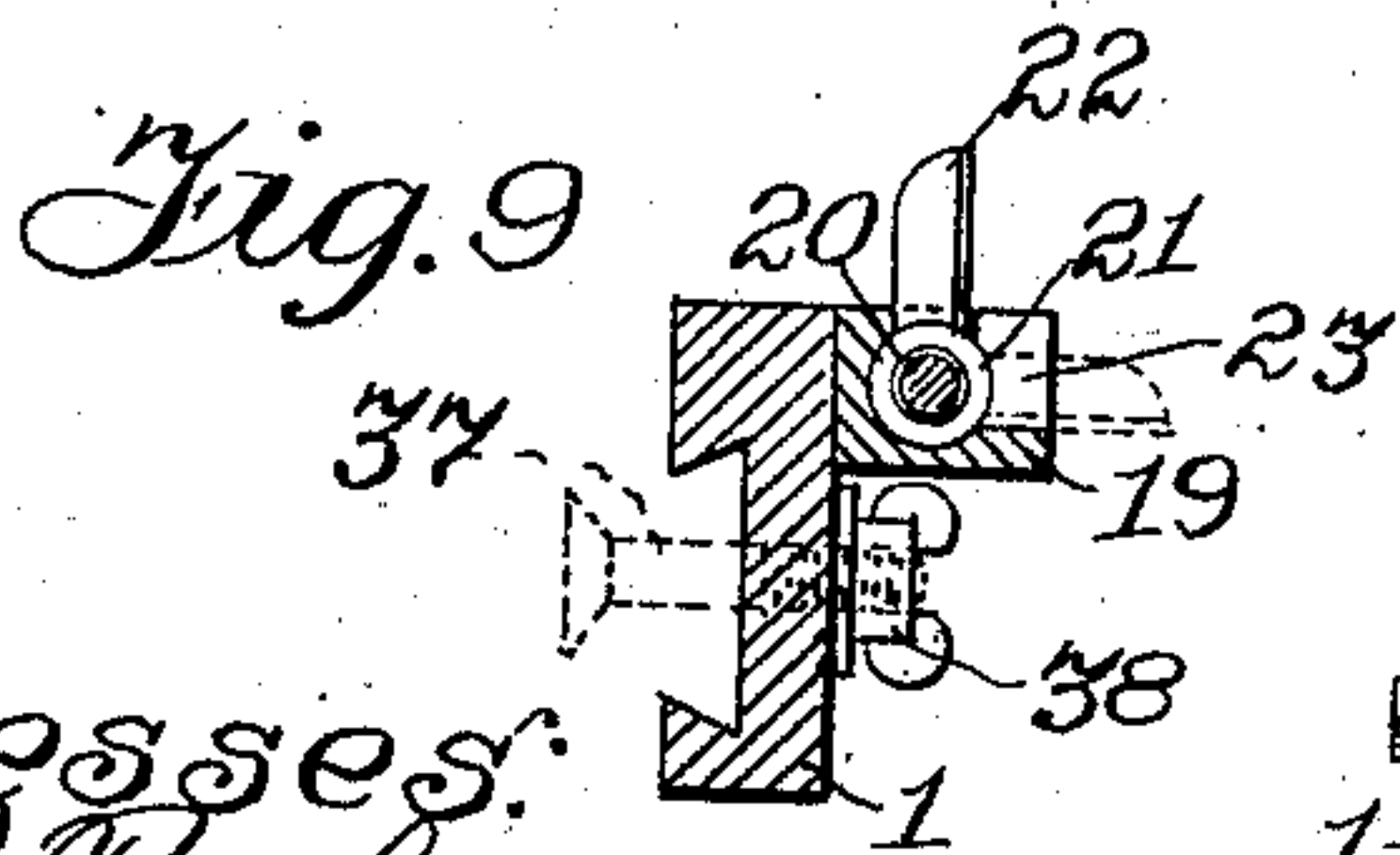
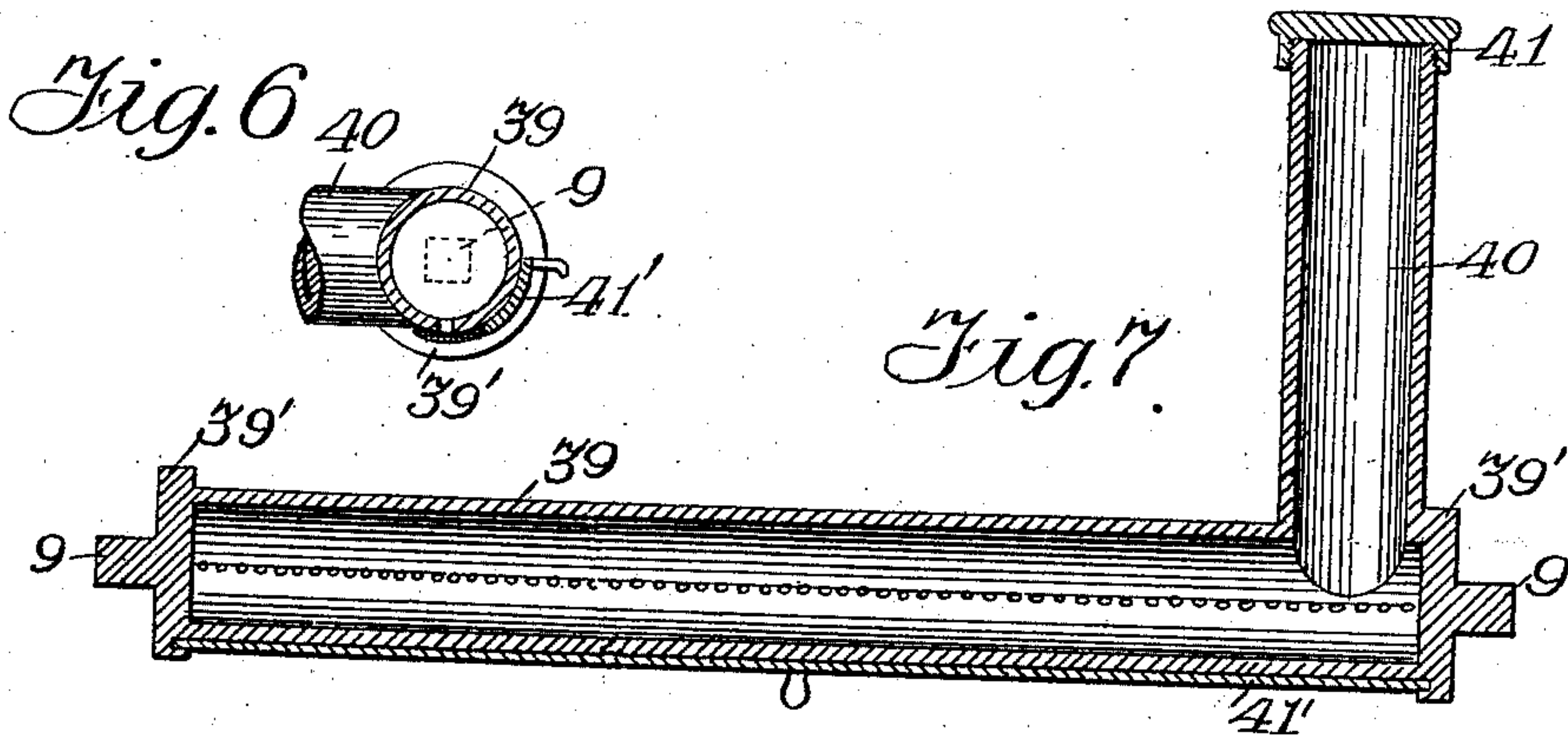
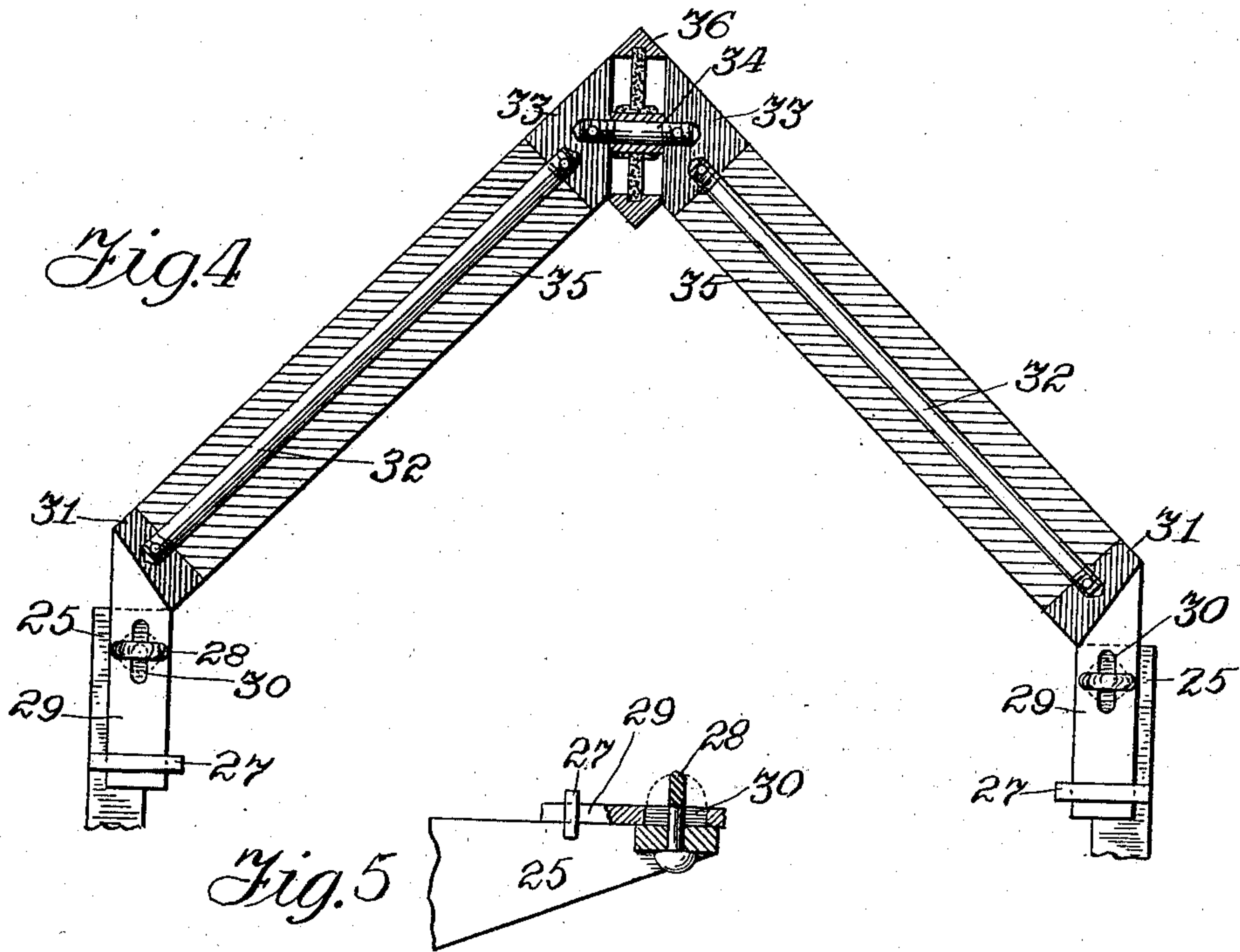
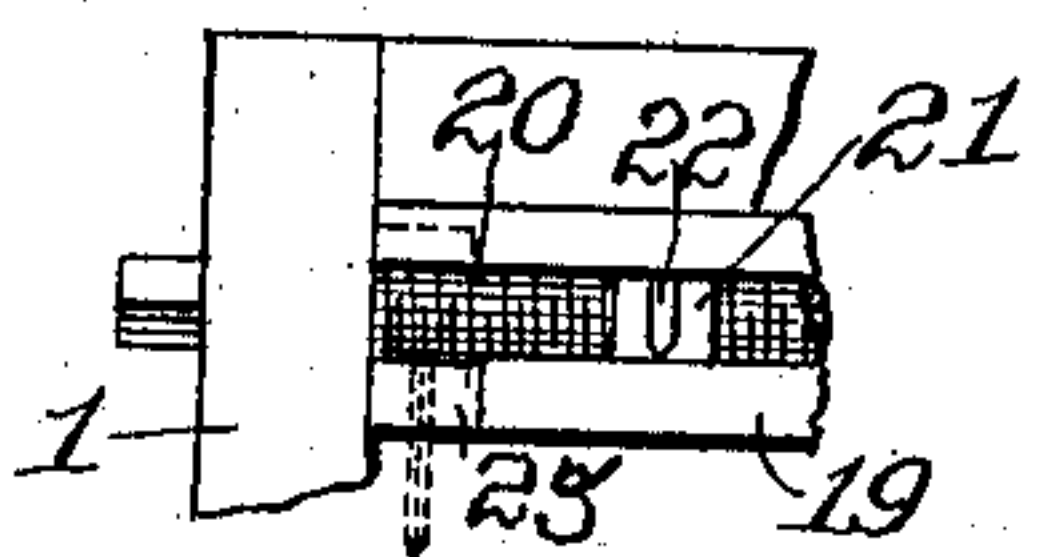


Fig. 8



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UNITED STATES PATENT OFFICE.

JOHANNES KARL CHRISTIAN SCHEER, OF BEAVERFALLS, PENNSYLVANIA.

WALL-PAPERING MACHINE.

SPECIFICATION forming part of Letters Patent No. 746,585, dated December 8, 1903.

Application filed March 18, 1903. Serial No. 148,323. (No model.)

To all whom it may concern:

Be it known that I, JOHANNES KARL CHRISTIAN SCHEER, a citizen of the United States of America, residing at Beaverfalls, in the
5 county of Beaver 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
10 drawings.

This invention relates to certain new and useful improvements in wall-papering machines, and has for its object the production
15 of a simple, compact, and efficient device for papering walls or adhesively applying materials from a roll.

The present invention also has for its object the production of a machine which is capable of being easily adjusted to apply materials on walls, borders, or ceilings, and the
20 parts for effecting the different functions being so arranged and controlled that the machine can be used by a single operator.

A further object of the invention is to produce a machine in which any width of material may be used and in which the material
25 may be divided lengthwise for the purpose of fitting one part of the divided material in the corners or other places where the full width is not required.

A still further object of this invention is to provide suitable means carried by the machine whereby a perfect contact is obtained
30 in applying the paper to a corner, and said means is adjustable for the purpose of permitting a strip of any width projecting any distance either side of said corner to be applied.

With the above and other objects in view
40 the invention consists in the novel construction, combination, and arrangement of parts, to be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings,
45 forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a plan view of my improved
50 wall-papering machine. Fig. 2 is a side elevation of the same. Fig. 3 is a section taken on line 3 3 of Fig. 1. Fig. 4 is a sectional detail of the adjustable rolls used in applying

paper or other material to a corner or to surfaces angularly disposed. Fig. 5 is a detail
55 view of the mechanism for securing the device to the main frame of the machine. Fig. 6 is an end sectional view of the paste-box. Fig. 7 is a plan view in section of the same. Fig. 8 is a fragmentary detail in plan of the
60 knife for dividing the material lengthwise of the same. Fig. 9 is an end view of said knife.

In the accompanying drawings, 1 indicates the square frame in which the different parts
65 are mounted.

2 indicates the spindle upon which the roll of paper is placed, said spindle projecting from side to side of the frame 1, and one end of the same being screw-threaded and provided with a notch, as at 3, for the purpose
70 of removal to introduce a roll of material.

4 indicates a contact-roll for holding the material in contact with the paste-brush 5, which receives paste from the cylindrical
75 paste-receptacle 6. The paste-brush is rotatably mounted in extensions 7 of the frame 1, and the paste-receptacle 6 is also held in these extensions by the square ends 9, provided on the same.

Forward of the contact-roll and paste-brush
80 the cutting-off shears are provided, and they consist of the fixed parts 10, secured to the sides of the frame 1, the knife portion 11 extending therebetween. The parts 12, carrying the knife 14, are pivotally mounted on the
85 parts 10, and cords 15, which are secured to the outer ends of the knife 14 or parts 12, pass through suitable eyes 16 on the outer ends of the knife 11 or parts 10. Thence they are carried to the center of the machine,
90 joined, and pass as a single cord 17 through the eye 18 and to a point on the handle where the operator may readily reach the same.

Forward of the cutting-off shears is an adjustable knife for dividing the material
95 lengthwise of the same. This knife mechanism consists of a slotted block 19, on one side of said slot there being provided a suitable scale, and passing through said slot is a screw-threaded adjusting-shaft 20. A block
100 21 is adapted to be engaged by this shaft 20, said block carrying the cutter-knife 22, which is of substantially the width of the slot in said block. At one end of the block a notched portion 23 is provided for the purpose of turning
105 the knife down or out of the position

where it would engage the paper in order that it will be out of the way when it is not required for use.

The outside upper edge of the frame 1 is provided with a dovetail slot, in which the dovetail 24 of the adjustable forward end 25 of the frame is adapted to engage, said forward end 25 carrying a platen or contact-roll 26, and on the upper edge of this part 25 on either side the rectangular loops 27 and securing-pin 28 are provided for the purpose of holding the corner-papering rolls in position. The construction of this corner-papering mechanism is as follows: The two extensions 29, the free ends of which are inserted in the loops 27, are provided with the slot 30, through which the heads of the securing-pin 28 are adapted to pass, have on their forward end the blocks 31, and concentrically mounted in said blocks is the shaft 32, the forward end of which is secured concentrically within the blocks 33, which in turn are secured together by the short shaft 34. Mounted on the shafts 32 are the contact-rolls 35, and over shaft 34 a flexible contact-wheel 36 is placed. This wheel 36 has interposed between its contacting surface and the hub thereof the flexible material, such as rubber, &c., or the same may be formed of spokes which are in the form of spiral springs in order that the roll may yield for the purpose of always adapting the same to form an even surface with the rolls 35 at the contact-point no matter what angle the machine is being used at. The securing of this corner-papering mechanism to the machine is clearly shown in Figs. 4 and 5, the head of the securing-pin 28 being passed through slot 30, as before mentioned, and the center portion of the same firmly securing said mechanism to the adjustable frame of the machine. A binding-screw consisting of a shank 37 and binding-nut 38 passes through dovetail connection between the parts of the frame 25 and 1 for the purpose of securing the same at any lateral relation.

The construction of the paste-box 8 is as follows: The feed portion 39, which extends the length of the paste-brush 5, has connected therewith at right angles thereto the reservoir 40, said reservoir being provided on its outer end with the removable cap 41 for the purpose of replenishing the supply of paste, the squared extension 9 from the portion 39 of the paste-box forming means for securing the same in the frame of the machine. At the point on the periphery of the part 39 which contacts with the paste-brush 5 a series of perforations extend from end to end of said part, or a narrow slot is provided for the purpose of causing said brush to receive its supply of paste, and suitably mounted in the slots in the flanges 39' 39' is a slide 41, which is adapted to cover the face of said openings for the purpose of shutting off the supply of paste when it is so desired. The shaft 42 of the paste-brush extends through one end of the extension 7 of the frame and

has secured thereon a pulley 43, and the shaft 44 of the platen, which extends through the adjustable portion of the frame, also has secured thereon a pulley 45. When the machine is not being used in papering corners, the adjustable portion 25 of the frame will preferably be in such position that it forms a direct extension on the part 1 of the frame, and an endless belt 46 is passed over the pulleys 43 45 for the purpose of positively driving the paste-brush when the platen 26 is rotated, due to the wall-paper being applied, the said belt being removed when the extension 25 of the frame is used in the offset position.

A screw-threaded shaft 47, one end of which carries the collars 48 to prevent lateral movement of the same and the other end of which extends through the frame 1 and is provided with the square end 49, carries a block 50, one end of said block encircling the spindle 2, on which the roll of paper is held. By rotating the shaft 47 the block 50 will be moved, thereby permitting the roll of paper of any width narrower than that for which the frame of the machine is designed to be securely held against lateral movement. When the machine is used for the purpose of papering corners, the paper will pass from the roll between the platen and the paste-brush, thence between the knives 14 and 11 of the cutting-off shears, and over the rolls 35 and 36, as indicated in full black line in Fig. 3. When the same is used on plain surfaces, the position of the paper will be such as shown in dotted lines in said figure.

The relation of the machine to the handle 25 is shown in Fig. 1 as approximately that used in papering walls or ceilings; but for other classes of work it would be desirable to alter said angular relation, and for this purpose the handle is pivoted to the lug 51 at 52 and extends downwardly over the segmental plate 53, which is secured to the frame 1. The plate is provided with openings 54, through which the binding-screw can pass. By turning the handle so that the opening which is provided therein registers with the aperture nearest to the angle required the screw can be passed through the handle, segmental plate 53, and rigid relation thereby secured between the machine and the supporting-handle.

It will be obvious that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

1. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for said roll, means for applying the adhesive agent to the material, means for causing the said material to be brought in contact with the surface to which it is to be applied, laterally-adjustable means

for severing material, substantially as described.

2. In a machine for adhesively applying material from a roll, the combination of a supporting-frame containing a support for the said roll, means for applying the adhesive agent to the material, means for securing an even application of this adhesive agent, means for causing said material to be brought in even contact with the surface to which it is to be applied, laterally-adjustable means for severing a material lengthwise, shears for severing a material, substantially as described.

3. In a machine for adhesively applying material from a roll, the combination of a supporting-frame containing a support for the said roll, means for applying the adhesive agent to the material, means for securing an even application of this adhesive agent, means for severing said material at any desired point, and means for causing said material to be brought in even contact with the surface to which it is to be applied, said means comprising a platen for applying the material mounted in the laterally-adjustable frame, substantially as described.

4. The combination of a supporting-frame, a handle adjustably secured to said frame, means for supporting the roll within said frame, means for applying an adhesive agent to the material, means for securing an even application of the adhesive agent, means for severing said material at any desired point, said means comprising a laterally-adjustable knife and shears for cutting off said material, and means for securing said material to be brought in even contact with the surface to which it is to be applied, substantially as described.

5. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for said roll, a rotatably-mounted brush for applying the adhesive agent to the material, a receptacle adapted to hold said agent, and supply the same to said brush, means for securing contact between the material to be applied and said paste-brush, an adjustable platen for applying the material and a laterally-adjustable frame carrying said platen, substantially as described.

6. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for said roll, a rotatably-driven paste-brush, a receptacle provided with openings to supply paste to said brush, a roll for securing contact with the material to be applied and said paste-brush, a platen for applying the material, and means for transmitting rotary movement from said platen to said paste-brush, laterally-adjustable means for severing the material lengthwise and shears for severing the material, substantially as described.

7. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for said roll, a rotatably-

mounted paste-brush, a roll for securing contact between the material to be applied and said paste-brush, a receptacle for paste so formed that an even supply of paste is supplied to said brush, shears for cutting off said material, and a platen for applying the same substantially as described.

8. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for said roll, a rotatably-mounted paste-brush, a receptacle serrated on one side to supply paste to the periphery of said brush, a roll for securing contact between the material and said brush, a laterally-adjustable knife for severing the material to be applied lengthwise of the same at any point intermediate its two edges, shears for cutting off said material, and a platen for applying the same, substantially as described.

9. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for said roll, a rotatably-mounted paste-brush, a receptacle for supplying paste to the periphery of said brush, a roll for securing contact between the material and said brush, a longitudinally-adjustable knife for severing the material to be applied lengthwise at any point intermediate its two edges, said knife registering with the graduated scale, shears for cutting off said material, and a platen for applying the same, said platen being mounted in a laterally-adjustable frame, substantially as described.

10. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for the roll, a laterally-adjustable member for confining said roll from lateral movement, a rotatably-mounted paste-brush, a receptacle for supplying said brush with paste, a roll for securing contact between said material to be applied and said brush, a knife for dividing the material lengthwise, shears for severing the material, and a platen for applying the same mounted in a laterally-adjustable frame to the end of which angularly-disposed platen-rolls are pivotally mounted, substantially as described.

11. In a machine for adhesively applying material from a roll, the combination of a frame containing a support for said roll, a block embracing said support, and laterally adjustable by a screw-threaded rod, a rotatably-mounted paste-brush, a receptacle for supplying said paste to said brush, a roll for securing contact between the material and said brush, a knife for dividing the material lengthwise, shears for severing the same, and a platen for applying the material, said platen being mounted in the forward end of a frame capable of lateral adjustment, a frame removably connected thereon forming a suitable support for the angularly-disposed platen-rolls, and mounted at the forward end of said support the flexible angular roll, substantially as described.

12. In a machine for applying wall-paper,

the combination of a frame, a roll-holder, a
block embracing said roll-holder and later-
ally adjustable by a screw-threaded rod en-
gaging the block, a rotatably-driven paste-
5 brush, a paste-receptacle located on one side
of the brush and provided with perforations
on the side next to the brush for supplying
said brush with paste, a roll on the opposite
side of the brush to secure contact between
10 the paper and said brush, a laterally-adjust-
able knife for dividing said paper lengthwise,
said knife capable of movement across the
graduated scale, and adapted to be turned to
a position whereby it may not be interposed
15 in the path of the paper, shears for severing
the paper, a platen for applying the paper to
the flat surface being rotatably mounted in a
laterally-adjustable frame, and angularly-
disposed platen, and an angular flexible roll
20 being rotatably mounted on an auxiliary
frame removably secured to the forward end
of said frame in which the platen for the flat

work is mounted, a pulley mounted on the
end of said platen for flat work, the said paste-
brush adapted to be connected by an endless 25
belt with the pulley when said machine is
used on flat work, the frame in which the roll
of paper is held having secured thereon a seg-
mental plate, the one side of which has the
supporting-handle pivotally mounted there- 30
on, a temporary connection between said han-
dle and the rounded surface of the segmental
plate whereby the angular relation of said
frame and handle may be changed, and a suit-
able connection from the cutting-off shears 35
whereby the same may be operated from a
suitable point on the handle, substantially as
described.

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

JOHANNES KARL CHRISTIAN SCHEER.

Witnesses:

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