

N. M. PURVIANCE.
WALL PAPER HANGING MACHINE.
APPLICATION FILED NOV. 9, 1908.

944,049.

Patented Dec. 21, 1909.

Fig. 3.

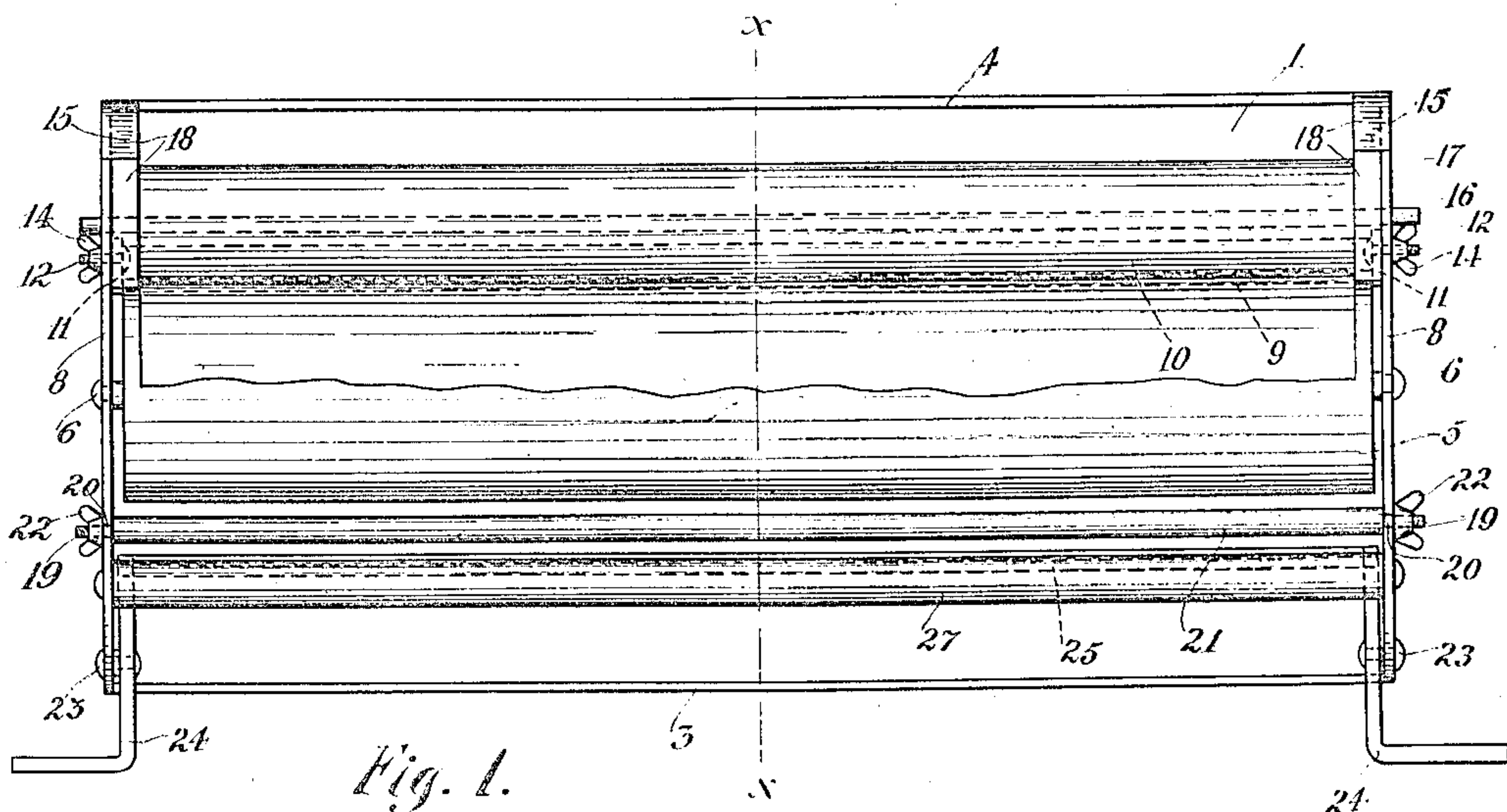
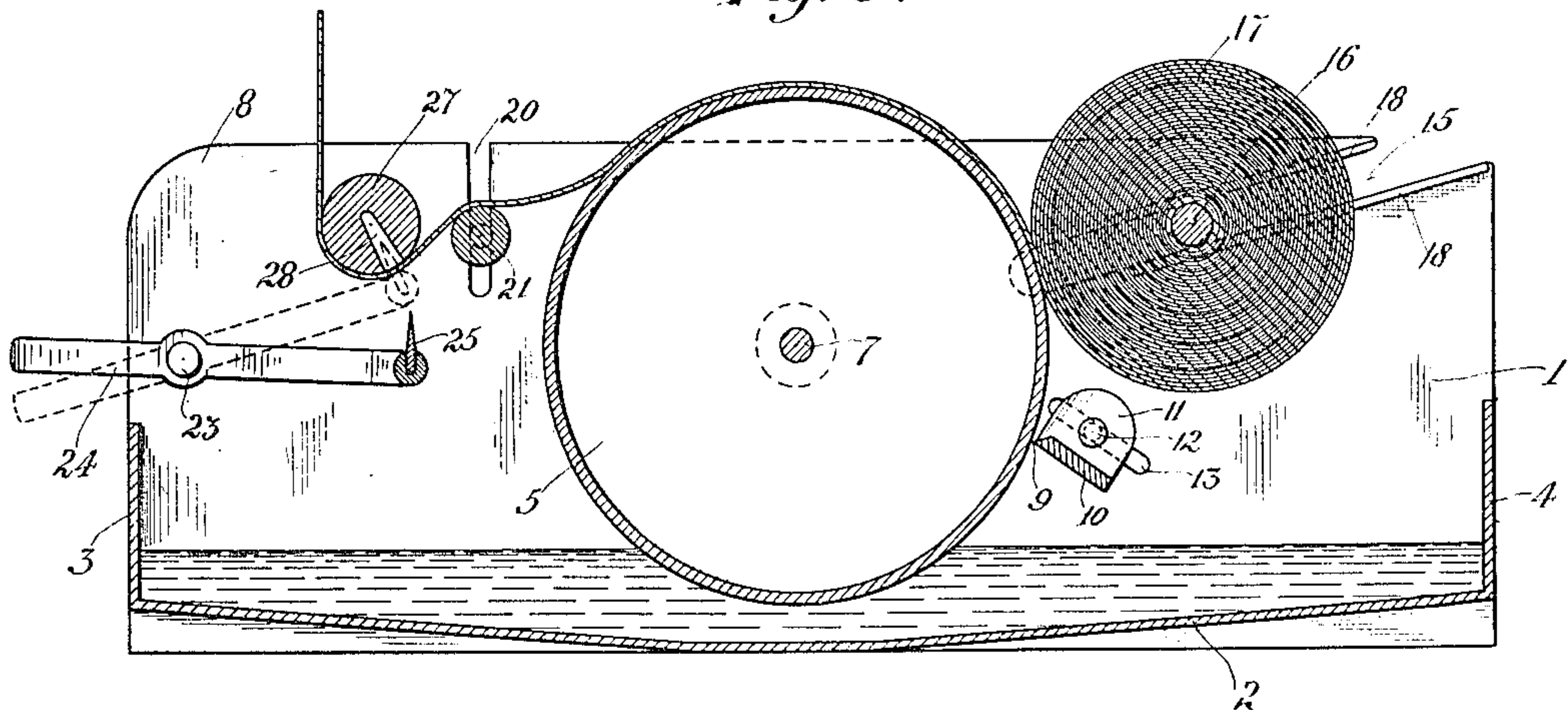


Fig. 1.

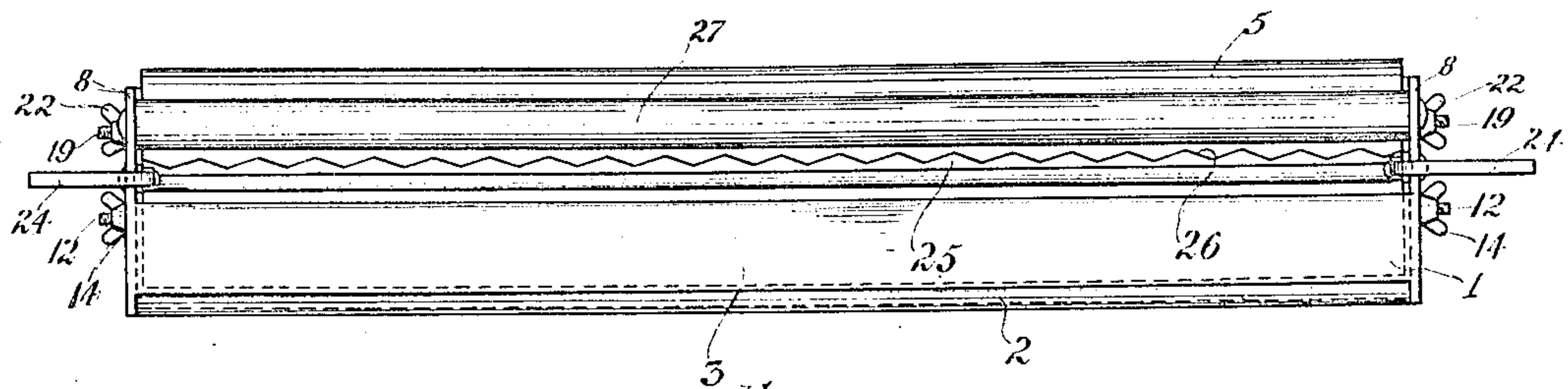


Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

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WALL-PAPER-HANGING MACHINE.

944,049.

Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed November 9, 1908. Serial No. 461,713.

To all whom it may concern:

Be it known that I, NATHAN M. PURVIANCE, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Wall-Paper-Hanging Machines, of which the following is a specification.

My invention relates to improvements in wall-paper pasting and hanging machines.

The object of my invention is to provide a device of the character mentioned, which may be readily and easily operated, and which may be employed to facilitate rapid and efficient hanging of wall-paper.

A further object of my invention is to provide a device of the character mentioned, in which will be reduced to a minimum the possibility of getting out of operative order.

A further object of my invention is to provide a device of the class mentioned, which will be of the highest possible efficiency, and at the same time, will be simple of construction, hence, a device of low cost to manufacture.

Other objects will appear hereinafter.

With these objects in view, my invention consists in a device characterized as above-mentioned, and in certain details of construction and in arrangements of parts all as will be hereinafter more fully described, and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a top plan view of the preferred form of my device, Fig. 2 is a front elevation thereof, and Fig. 3 is a vertical transverse section taken on the line $x-x$ of Fig. 1.

Referring now to the drawings, 1 indicates a suitably shaped, preferably rectangular receptacle, the same being preferably formed of sheet metal, although not necessarily. The bottom 2 of said receptacle slopes or inclines from the front 3 and back 4 thereof toward the longitudinal center line thereof, as clearly shown in Fig. 2, for a purpose which will be hereinafter described.

5 indicates a paste-roller, preferably formed of sheet metal, the end portions 6 of the shafts 7 of which, are journaled in the end walls 8 of the receptacle 1. Said roller is of such a diameter and is so positioned in the receptacle 1 that the under portion there-

of is in close proximity with the lowest portion of the inclined bottom of said receptacle for obvious reasons. Having its edge 9 extending parallel with the outside surface of the roller 5, is a horizontally extending paste regulator or gage 10. Said member may be of any suitable shape, but is preferably as shown in the drawings, a sheet metal blade. The end portions 11 of said blade are off-set, as shown in Fig. 3 and are provided with pivotal bolts 12 outwardly projecting therefrom. Said bolts rest in preferably obliquely extending slots 13 provided for the reception of the same in the end walls 8 of the receptacle 1, said bolts being provided with thumb-nuts 14 threaded thereon. By this construction, it is obvious that the member 10 may be positioned at any desired distance from the roller 5, hence, the amount of paste carried by said roller in revolving and therefore the amount of paste deposited upon the wall-paper passed over said roller, may be readily and exactly regulated or gaged.

Resting in upwardly opening, obliquely extending slots 15 provided in the upper rearward portion of the end walls 8 of the receptacle 1, is a roller rod 16, the same being adapted when the device is in use, to carry a roll 17 of wall-paper. Said slots are provided with inwardly extending flanges 18 between which the paper roll is adapted to revolve. Said flanges 18 are of such widths that the same overlap the extremities of the roller 5, as clearly shown in Fig. 1, hence act as a means of preventing the paper passing over said roller 5 from working beyond the extremity thereof. Having its reduced end portions 19 resting in upwardly opening, vertically extending slots 20 provided in the forward portion of the end walls 8 of the receptacle 1, is a preferably cylindrical paste-distributor 21. Said end portions 19 of said member 21 are provided with thumb-nuts 22 threaded thereon, thereby facilitating vertical adjustment of said member. If desired, said member 21 may be covered with a coating of felt, rubber or any other suitable material adapted to partially remove the paste from the paper passing thereover, however, such provision is not essential and may or may not be employed, as desired.

Pivotally secured as at 23 close to the forward edge of the end walls 8 of the receptacle 1 are angular arms 24 between the inner

extremities of which is secured a knife-blade 25, the shearing edge 26 of which is serrated as clearly shown in Fig. 2. Positioned above said knife-blade 25 directly in front of the member 21, the extremities of the same being suitably fixed to the end walls 8 of the receptacle 1, is a cylindrical member 27. Said member 27 is provided with a longitudinally extending recess 28, said recess lying in the locus of the knife-blade 25 which it is adapted to receive, as shown in dotted lines in Fig. 1.

In using the device a roll of paper of any diameter within the ordinary range, is placed or supported upon the roller rod 16. Said paper is passed over the roller 5 thence over the distributor 21 and thence beneath the member 27 as shown in Fig. 3. As the paper is drawn through said parts, paste being in the bottom of the receptacle 1, as shown in Fig. 3, a film or coating of paste, of a thickness governed by the distance of the regulator or gage edge 9 from the surface of the roller 5, will be deposited upon the back side of said paper. As said paper passes over the member 21, the paste is caused to be more evenly distributed upon said paper, a portion of the same, depending upon the vertical position of said member 21 in said receptacle being removed. Upon the desired length of paper being drawn out of the device, by depressing the outer end portion of the arms 24 the knife-blade 25 will be forced upwardly thereby piercing and hence severing the paper at the proper length. By providing the receptacle with an inclined bottom as described, it is obvious that the paste contained in said receptacle in seeking the lowest point thereof, will be brought in contact with the paste roller 5. By this provision it is obvious that only a small amount of paste remains unused. By the provision of a device as described, rapid

and efficient wall-paper hanging as before stated, will be facilitated.

While I have shown what I deem to be the preferable form of my device I do not wish to be limited thereto, as there might be many changes made in the details of construction and arrangements of parts without departing from the spirit of my invention.

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

1. In a paper pasting machine, a paste receptacle having parallel side walls, a roller mounted in said receptacle between said walls, means for supporting a roll of paper adjacent said roller, and a paste distributor arranged adjacent said roller and beneath said paper supporting means, said distributor comprising a metal strip having its ends bent at right angles thereto and perforated and adjusting screws extending through said perforated ends, said side walls being provided with slots arranged substantially radially to said roller to receive said adjusting screws, substantially as described.

2. In a paper pasting machine, a paste receptacle, a roller mounted therein means for supporting a roll of paper adjacent thereto, a member arranged parallel and about which the paper passes before leaving the machine, said member being provided with a longitudinal recess, a knife mounted adjacent said member and adapted to co-act with said recess to sever the paper and an adjustable roller mounted between the first said roller and said member, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NATHAN M. PURVIANCE.

Witnesses:

HELEN F. LILLIS,
ANNA L. EKVALL.