

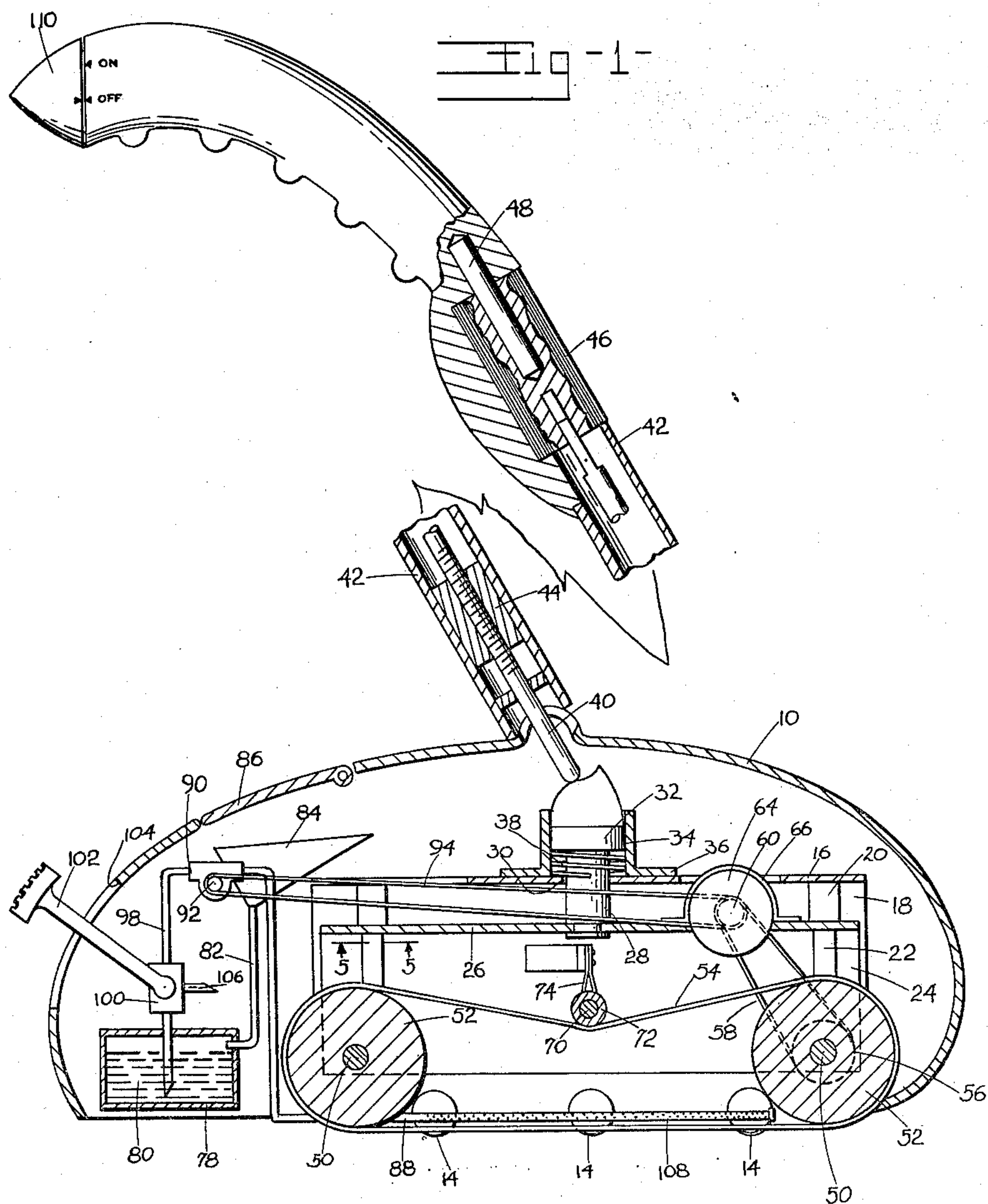
March 6, 1951

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DOMESTIC ELECTRIC FLOOR POLISHER,
BUFFER, AND APPLICATOR

2,544,174

Filed March 22, 1946

3 Sheets-Sheet 1



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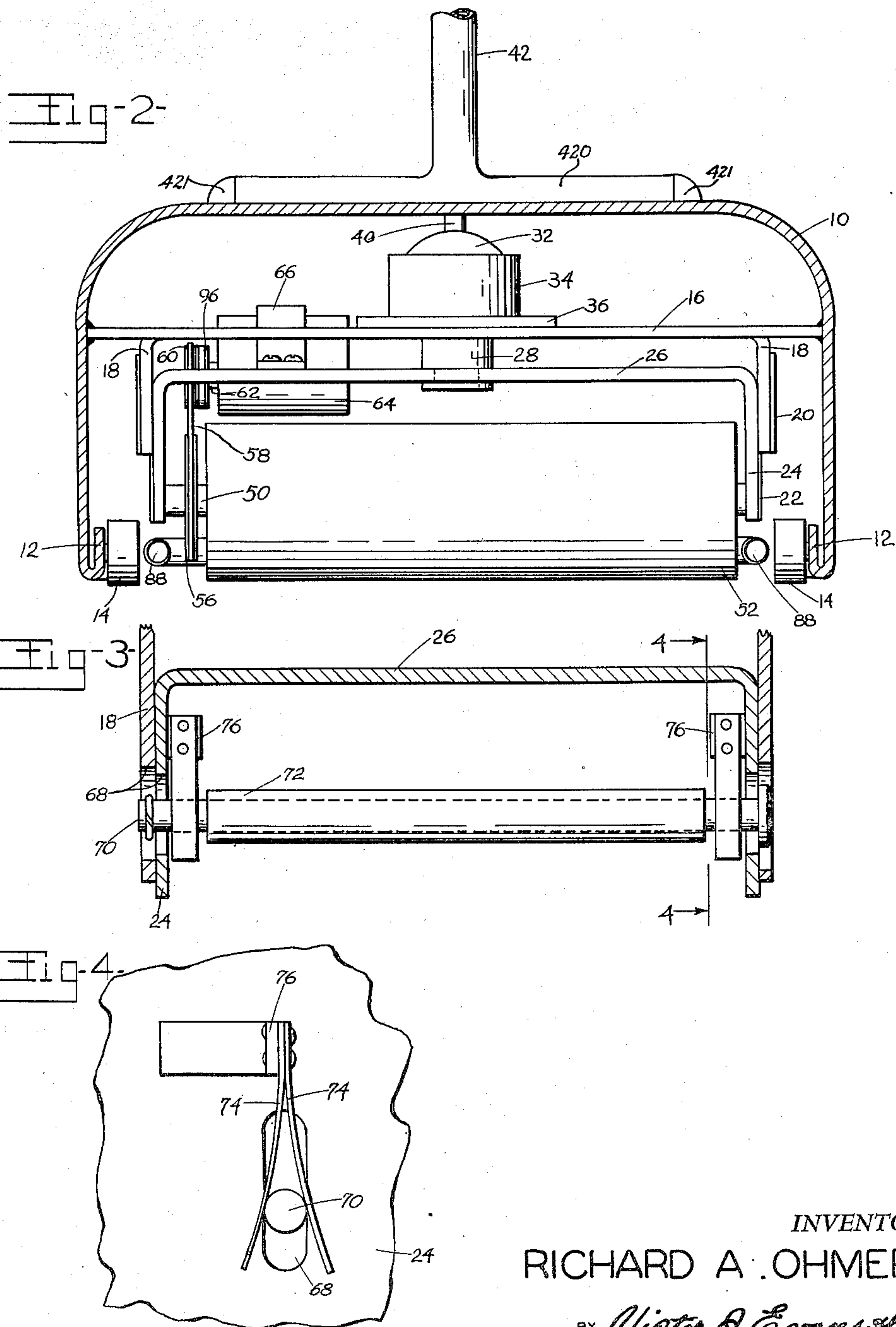
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Fig-5-

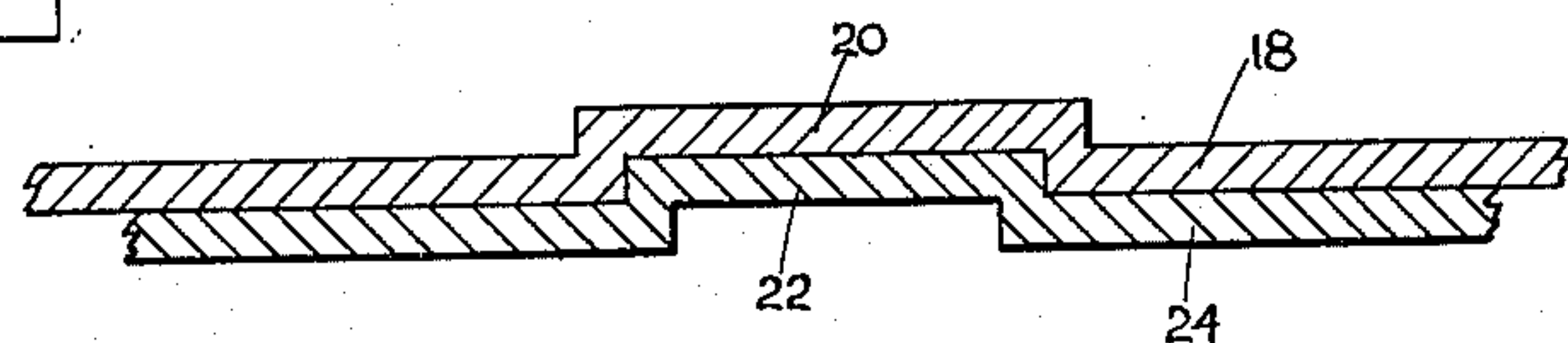


Fig-6-

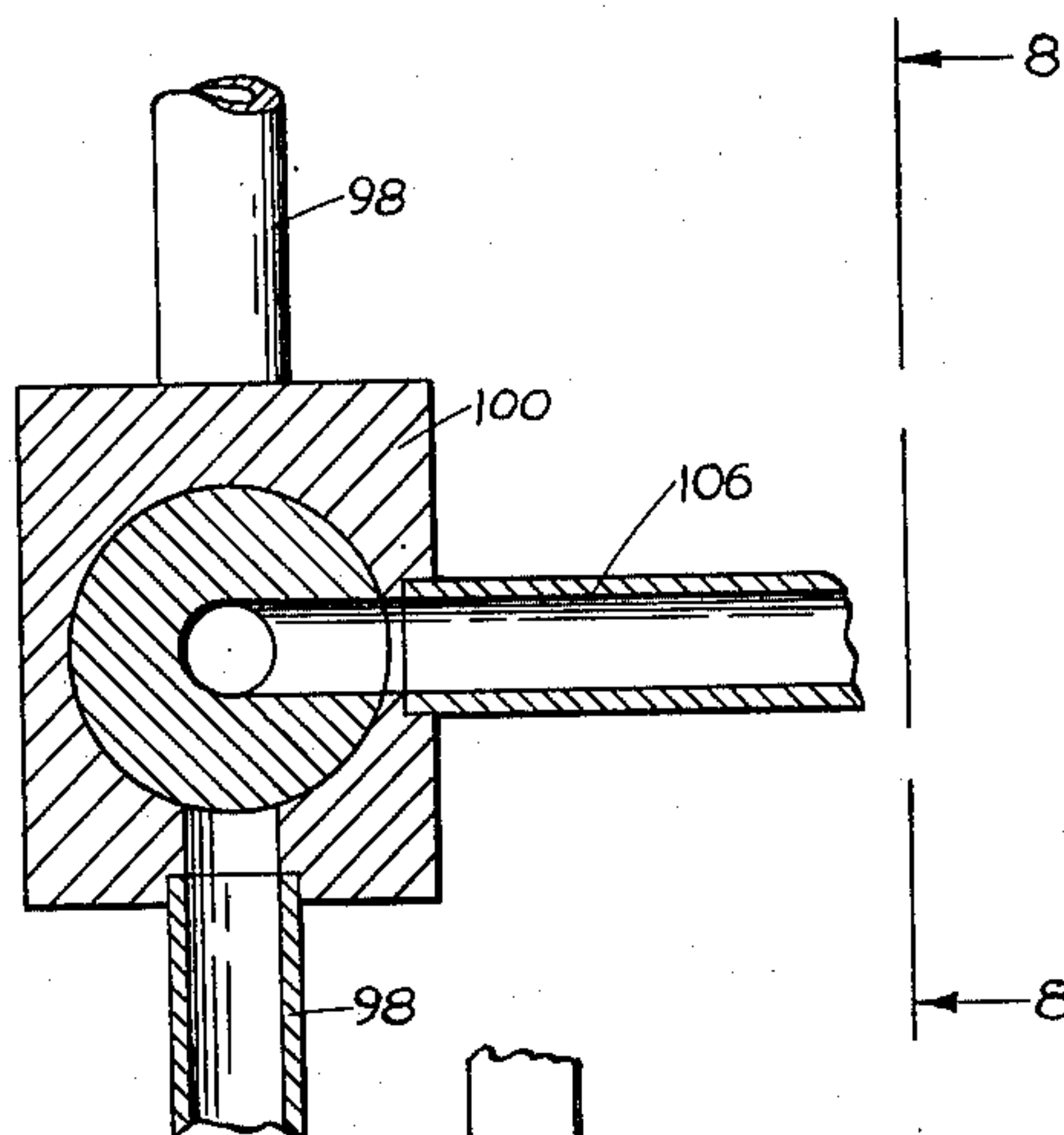


Fig-7-

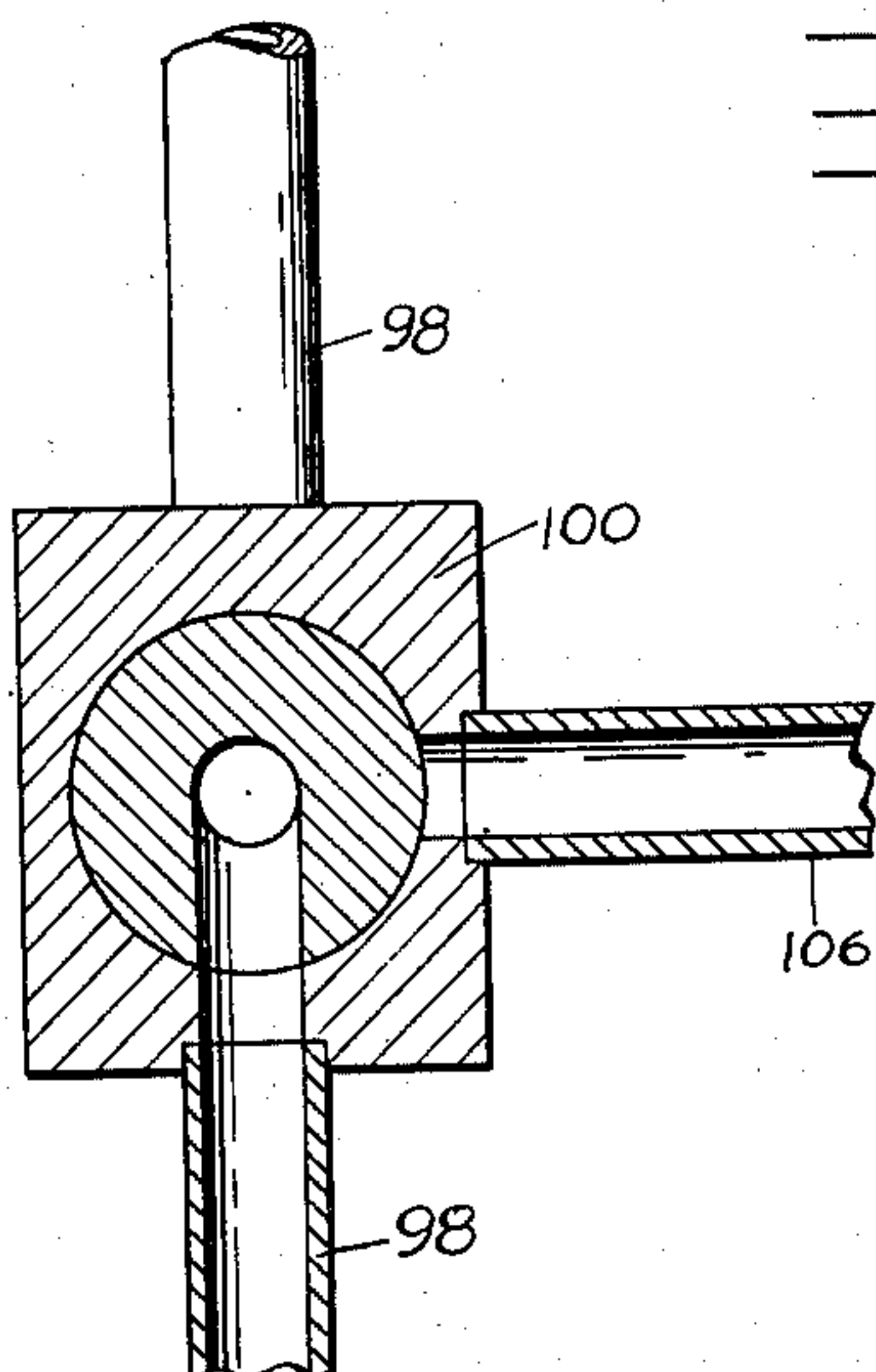
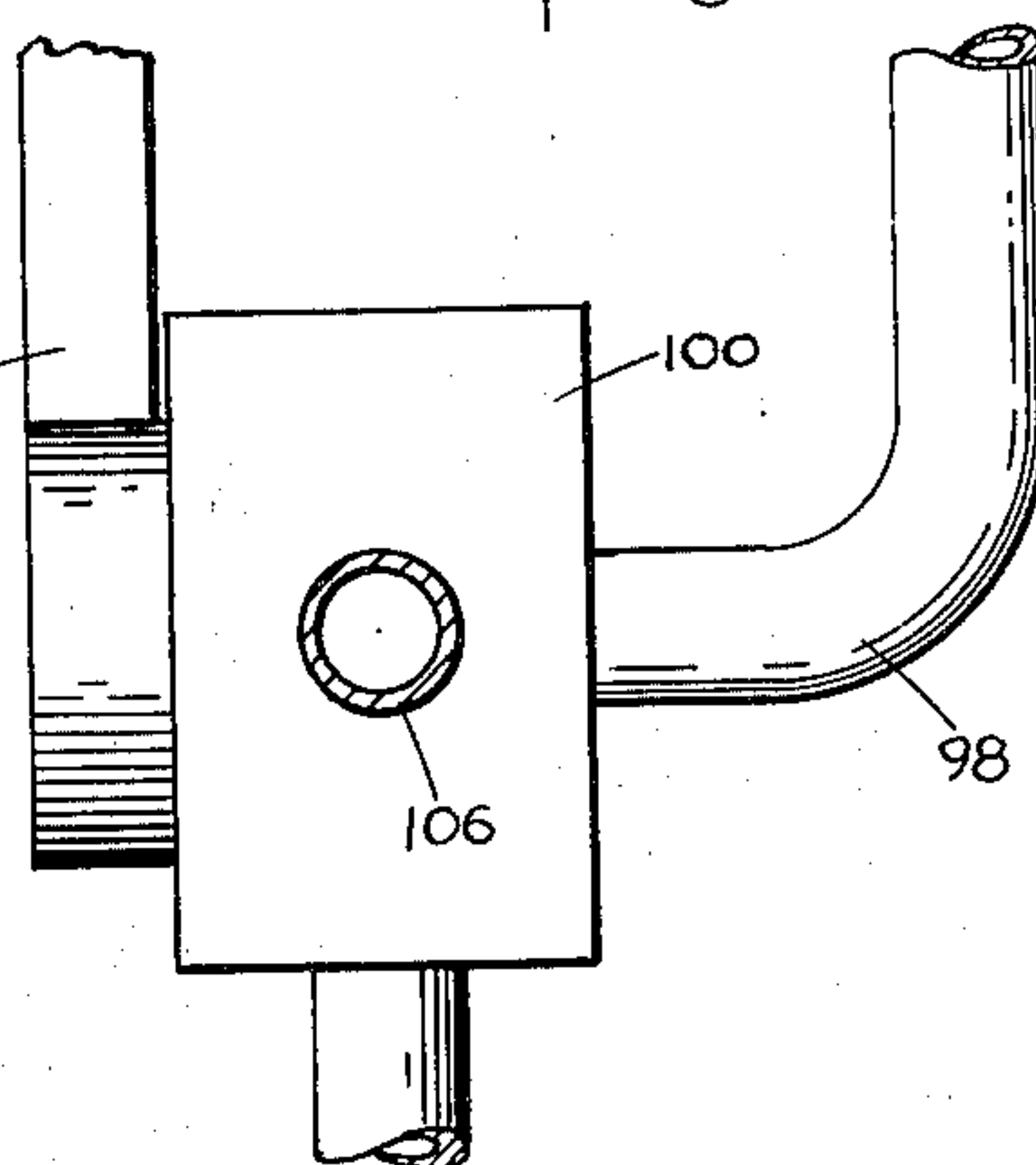


Fig-8-



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UNITED STATES PATENT OFFICE

2,544,174

DOMESTIC ELECTRIC FLOOR POLISHER,
BUFFER, AND APPLICATOR

Richard A. Ohmert, Glendale, Calif.

Application March 22, 1946, Serial No. 656,178

1 Claim. (Cl. 91-18)

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This invention relates to a domestic electric floor polisher, buffer and applicator which is adapted to apply as well as polish the wax on a floor or similar surface.

An object of this invention is to provide a device that will spray wax on a floor and by the use of the same device polish the wax after it has been applied.

This device saves time, the excessive use of wax, as well as having to apply the wax by kneeling on the floor, or using a separate applicator.

Another object of the invention is to provide a device that is simple in construction, durable in use, efficient in operation and can be manufactured inexpensively.

With the above and other objects and advantages in view the invention consists of the novel details of construction, arrangement and combination of parts more fully hereinafter described, claimed and illustrated in the accompanying drawings in which:

Figure 1 is a sectional view of an embodiment of the invention;

Figure 2 is a cross sectional view of Figure 1;

Figure 3 is a detailed sectional view of the belt tensioner;

Figure 4 is a sectional view on the line 4-4 of Figure 3;

Figure 5 is a sectional view on the line 5-5 of Figure 1;

Figure 6 is a detailed sectional view of the valve in its cleaning position;

Figure 7 is the same in wax applying position;

Figure 8 is a view looking in the direction of the arrows on the line 8-8 of Figure 6.

Referring more in detail to the drawing the numeral 10 designates the housing of the device which is provided with an inturned flange 12 on which rollers 14 are mounted for movement of the housing over the floor or similar surface.

Secured transversely of the housing 10 by welding or the like is a partition 16 having depending struck out parallel and opposed arms 18 which are provided with vertical guideways 20 to receive the inset portions 22 of the arms 24 of the movable transverse plate 26 which is in parallel relation with the partition 16.

Fixed to the center of the plate 26 is the plunger 28 which extends upwardly through the opening 30 in the partition 16 and is provided with a head 32 which is slidably mounted in the circular housing 34 fixed to the partition 16 by the circular flange 36 being welded thereto, and a compression spring 38 in the housing 34 engages the head 32 and partition 16 as shown

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in Figure 1. The upper surface of the head is concavo-convex to engage the rod 40 threadably mounted in the handle 42 by means of the block 44 and the upper end of the rod is provided with a knurled hand grip 46 rotatably mounted in the handle 42 by a pin 48 and rotation of the grip will cause the rod to bear against the upper surface of the plunger head 32 to control the pressure on the plate 26.

The plate 26 has the axles 50 journaled therein on which are mounted the rollers 52 and an endless polishing belt 54 is trained over the rollers 52. A pulley 56 on the front axle 50 has a belt drive connection 58 with the pulley 60 on the driveshaft 62 of the motor 64 mounted on the plate 26 by the hanger 66. The handle 42 is provided with a T head 420 which is mounted for rotation within the bosses 421 fixed to the top of the housing 10 and spaced thereon to receive the ends of the head 420.

Journalled in openings 68 in the arms 18 and 24 of the partition 16 and plate 26 respectively is the shaft 70 having the roller 72 mounted thereon which engages the belt 54 and tensions the same by means of spring brass strips 74 mounted on opposite sides of the shaft 70 and secured to the struck out ears 76 formed on the arms 24 of the plate 26. The strips 74 compress inwardly forcing the roller 72 against the belt 54 to hold the belt tight.

Mounted in the housing 10 rearwardly of the belt 54 is the container 78 for the liquid wax 80. The container is provided with a filler tube 82 having the funnel 84 on the upper end thereof access being gained thereto for filling the container 78 by means of the hinged trap door 86 in the upper surface of the housing 10.

A liquid wax applying U-shaped nozzle 88 extends on opposite sides of the belt 54 and is connected to a pump 90, having a pulley 92 thereon which has a belt drive connection 94 with a pulley 96 on the drive shaft 62 for the motor 64. The pump 90 is connected to the container 78 by a tube 98 in which is interposed the valve 100 having the foot pedal control 102 extending through the opening 104 in the housing 10 rearwardly thereof.

The valve 100 can be positioned as shown in Figure 6 to clean the tube 98 by exhausting to the atmosphere through outlet 106 or can be positioned as shown in Figure 7 to feed the liquid wax to the perforations 108 in the nozzles 88.

In use the device is plugged into an electrical outlet not shown, by means of the conventional

plug and current supply cord not shown, the switch 110 is turned on, valve 102 is opened and the device is run over the floor similar to the manner in which a vacuum cleaner is moved over the floor and the weight of the housing being carried by the rollers 14. A spray of wax is applied to the floor, and after the floor is evenly coated the valve is turned to cut off the supply of wax. The grip 46 is turned to bring the belt in contact with the floor, this being accomplished by engagement of the rod with the head of the plunger and the floor is polished.

Thus a device has been provided that will apply the wax to the floor and polish the wax and it is believed that the construction and operation of the device will be apparent to those skilled in the art.

It is also to be understood that changes in the details of construction, arrangement and combination of parts may be resorted to providing they fall within the spirit of the invention and the scope of the appended claim.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

A device of the character described, comprising a housing, wheels on said housing for movably supporting the same, a horizontal fixed plate in said housing, a horizontal movable plate in said housing below said fixed plate, a pair of relatively spaced rollers journaled on said movable plate, an endless belt entrained over said rollers for polishing a floor surface, a spring pressed plunger connected to said movable plate and extending upwardly through said fixed plate, a handle pivotally mounted on said housing and having means for engaging said plunger where-

by movement of said handle will cause the said spring pressed plunger to move said movable plate downwardly to cause engagement of the endless belt with the floor, a reservoir for liquid wax mounted in said housing at one end of said plates for applying liquid wax to the floor surface, a funnel for said reservoir, a filler tube connecting said funnel to said reservoir, a U-shaped nozzle in said housing positioned on opposite sides of said belt, a pump connected to said nozzle, a tube connecting said pump to said reservoir, a foot operated valve interpolated in said last mentioned tube between the pump and reservoir, operative means for driving the said rollers, operative means between said rollers and said pump for actuating said pump upon rotation of said rollers so that upon operation of said foot valve liquid wax will be applied to the floor surface to be polished by the endless belt, and tensioning means carried by said housing and engaging said belt for the tensioning thereof.

RICHARD A. OHMERT.

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