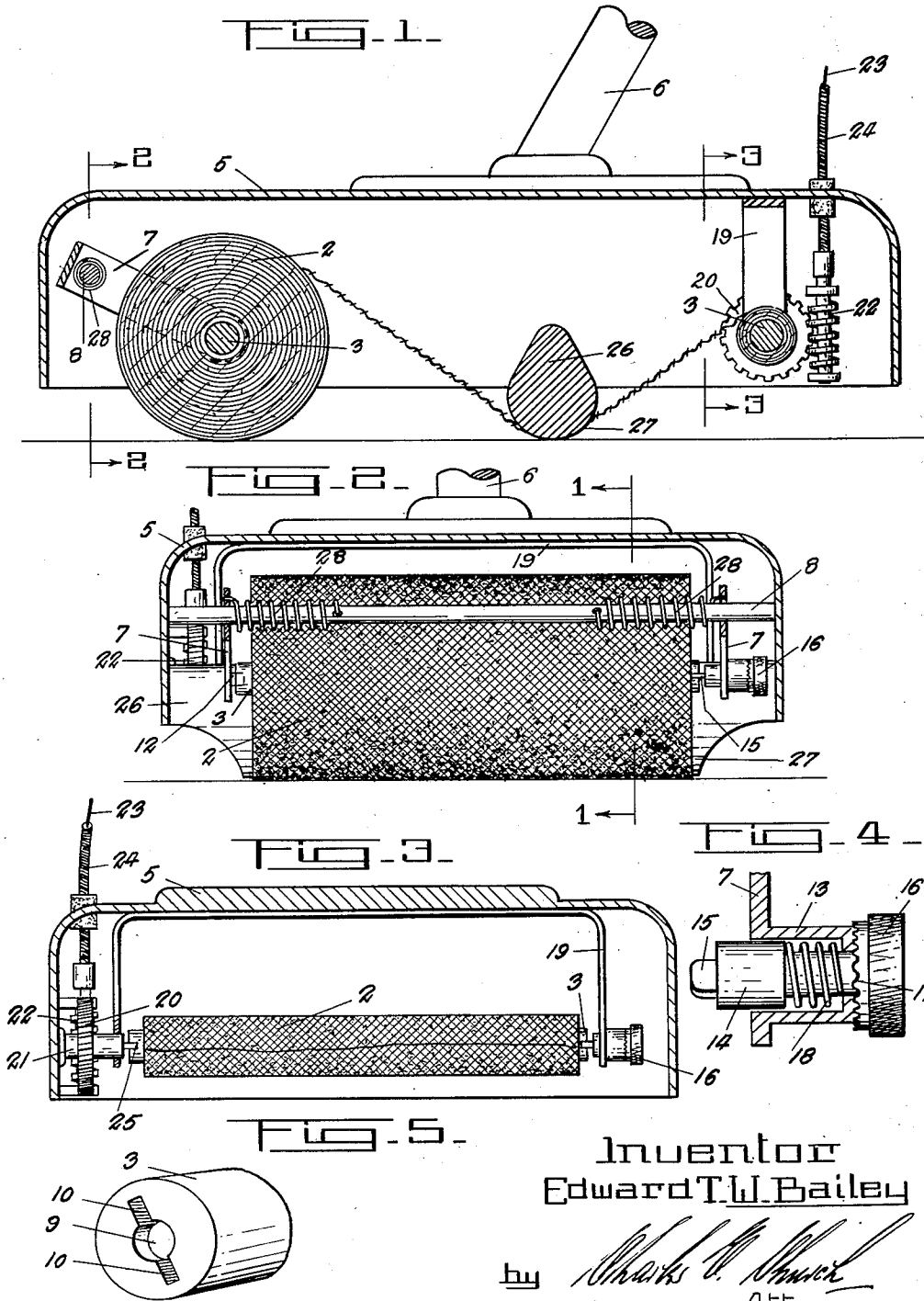


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FLOOR WAXING DEVICE
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FLOOR WAXING DEVICE

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My invention relates to improvements in floor waxing devices, and the object of my invention is to produce a device for spreading wax upon floor surfaces and wherein a roll of wax impregnated cloth or other flaccid material distributes wax upon the floor as it is passed thereover.

A further object of my invention is to rotatably mount the roll within the device and to provide a core for receiving the free end of the roll of cloth and which is rotatable at the will of the operator.

Another and particular object of my invention is to provide a member positioned in proximity to the floor and interposed between the roll of cloth and the cloth receiving core and over which the wax impregnated cloth passes, one side of the cloth when on the roll being in contact with the floor and the other side of the cloth being in contact with the floor as it passes over the member.

With the foregoing and other objects in view which shall hereinafter appear, my invention consists of a floor waxing device constructed and arranged all as hereinafter more particularly described and illustrated in the accompanying drawing in which:

Figure 1 is a vertical longitudinal cross-sectional view through my device, being taken through the line 1—1, Figure 2.

Figure 2 is a transverse vertical cross-sectional view taken through the line 2—2, Figure 1.

Figure 3 is also a transverse vertical cross-sectional view taken through the line 3—3, Figure 1.

Figure 4 is an enlarged fragmentary view of one of the rotatable roll holding studs, and

Figure 5 is a further enlarged perspective view of an end portion of one of the roll cores.

Like characters of reference indicate corresponding parts in the different views of the drawing.

A roll 2 of wax impregnated cloth or other material is wound upon a core 3 and constitutes the waxing medium which is designed to be inserted into the device, and gradually unrolled into another similar core 3. When the roll 2 is completely unrolled onto the second core 3, the core and the used roll thereon are removed and discarded. The core 3 from which the roll has been unrolled is positioned in place of the discarded core 3 and a new roll of cloth 2 wound on a new core 3 is inserted in the device.

The device as illustrated broadly consists of a casing 5, adapted to be moved over a floor surface and provided with the usual handle 6 extending waist high of the operator. The casing

is of inverted dish shape open at its bottom and contains an inverted substantially U-shaped member 7 which is swingable upon a cross bar 8 extending through the member and having its ends supported within the casing 5.

The roll 2 with its core 3 is adapted to be positioned between the end portions of the legs of the U-shaped member 7. The ends of the core 3 are formed with central orifices 9 and diametrical wing slots 10. One leg of the U-shaped member 7 carries a stud 12 which is received in one orifice 9 and the other leg carries a combined brake and locking member as illustrated in Figure 4.

In the assembly as shown in Figure 4 the leg of the U-shaped member 7 carries a cylindrical housing 13 containing a rotatable plunger 14. The inner end of the plunger 14 carries a tongue 15 which is receivable within the slots 10 in the end of the core 3. The outer end of the plunger 14 carries a knob 16. The inner face of the knob 16 is formed with radial knurls 17 which are adapted to engage corresponding knurls on the outer face of the housing 13. A spiral spring 18 surrounding the plunger 14 urges the plunger towards the core 3 and retains the knurls in interengagement. It will thus be appreciated that the assembly as shown in Figure 4 has a dual purpose in detachably retaining the core 3 in position and acting as a brake to retain the cores against free rotation. By pulling the knob 16 outwardly against the tension of the spring 18 the tongue 15 can be inserted into or removed from the slots 10 in the core 3, permitting the core to be inserted or removed from between the legs of the member 7.

The core 3 which receives the free end of the roll 2 is carried within a U-shaped member 19. At one end of the member 19, I furnish a worm gear assembly for rotating the core. The assembly consists of a worm wheel 20 carried upon a spindle 21 extending from the casing 5 and through an orifice in the adjacent leg of the member 19. The worm wheel and spindle are rotated by a worm 22 which is suitably mounted and connected to the end of a flexible cable 23 contained in the usual flexible tube 24. The upper end of the cable and tube extend to the top of the handle 6 and through suitable well known means the cable 23 can be rotated by the operator.

The spindle 21 extending through one leg of the U-shaped member 19 carries a tongue 25 on its inner end, the tongue being receivable within the slots 10 in the end of its core 3. The other leg of the member 19 carries a similar brake and

locking member to that carried on the U-shaped member 7, and illustrated in Figure 4.

The material from the roll 2 in being unwound from one core 3 and wound unto the other core 3 passes over a stationary member 26 extending transversely of the casing 5. The member 26 is formed with a lower curved face 27 over which the material passes, and at which point the material is resting upon the floor. In order to maintain the roll of material 2 in contact with the floor and to compensate for its gradually reducing diameter as it unrolls, the roll is urged downwardly by means of springs. The cross bar 3 carries a pair of spiral springs 28. The inner ends of the springs 28 are anchored to the cross bar 8 and the outer ends of the springs are anchored to the U-shaped member 7. The springs are under tension and urge the member 7 and its supported roll 2 in a downward direction.

The operation of my device is extremely simple. A roll 2 of wax impregnated cloth or other flaccid material is placed within the U-shaped member 19. The free end of the material from the roll 2 is passed over the face 27 of the member 26 and attached to the empty core 3.

When the device is placed upon the floor, as shown in Figure 1, the roll 2 rests upon the floor as also does the material covered face 27 of the member 26. It will thus be observed that while the outer face of the cloth in the roll 2 is in contact with the floor, the inner face of the cloth is also in contact with the floor as it passes over the member 26. By this arrangement both faces of the wax impregnated cloth are in contact with the floor.

As the device is being passed over the floor, the operator, at will, rotates the flexible cable 23 from time to time. As the cable 23 is rotated, the worm 22, worm wheel 20 and core 3 are rotated so that the cloth gradually unwinds from the roll 2. By the provision of the braking mechanisms the cores are retained from freely rotating, and will only rotate at the will of the operator, thus keeping the cloth taut and free from wrinkles.

Each time the cloth receiving core 3 is partly rotated a new section of cloth on the outer face of the roll 2 comes in contact with the floor and a new section of the inner face of the cloth comes in contact with the floor as it passes over the member 26. When the roll 2 is exhausted, being completely wound unto the receiving core 3, a new roll of cloth is inserted and the old roll thrown away.

From the foregoing description it will be apparent that I have devised a very simple and effective device for distributing wax over floor surfaces. Although I have described the cloth, or other flaccid material, as being wax impregnated, it will be readily understood that this impregnation is not necessary, if it is desired to use the device for other purposes, and that I may make such changes and alterations as I may from time to time deem necessary, without departing from the spirit of my invention as set forth in the appended claims.

What I claim as my invention is:

1. In a device of the character described adapted to be moved over a floor, a roll of flaccid material rotatably mounted in the device and resting upon the floor, a roller mounted in the device for receiving the free end of the roll of material and rotatable at will of the operator, and a member interposed between the roll of ma-

terial and the material receiving roller and over which the material passes, said member being so positioned that material passing thereover is in contact with the floor.

2. In a device of the character described adapted to be moved over a floor, a roll of flaccid material rotatably mounted in the device and resting upon the floor, a roller mounted in the device for receiving the free end of the roll of material and rotatable at will of the operator, and a member interposed between the roll of material and the material receiving roller over which the material passes, said member being so positioned that material passing thereover is in contact with the floor, the roll of material and the member over which the material passes being so positioned in relation to one another that one side of the material when on the roll is in contact with the floor and the other side of the material when the material is passing over the member is in contact with the floor.

3. In a floor waxing device of the character described adapted to be moved over a floor, a roll of flaccid material impregnated with wax and rotatably mounted in the device and resting upon the floor, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at the will of the operator, and a member interposed between the roll of material and the material receiving roller and over which the material passes, said member being so positioned that material passing thereover is in contact with the floor.

4. In a floor waxing device of the character described adapted to be moved over a floor, a roll of flaccid material impregnated with wax and rotatably mounted in the device and resting upon the floor, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at the will of the operator, and a member interposed between the roll of material and the material receiving roller and over which the material passes, said member being so positioned that material passing thereover is in contact with the floor, the roll of material and the member over which the material passes being so positioned in relation to one another that one side of the material when on the roll is in contact with the floor and the other side of the material when the material is passing over the member is in contact with the floor.

5. In a device of the character described adapted to be moved over a floor, a member moveably contained within the device, resilient means tending to move said member downwardly towards the floor, a roll of flaccid material removably and rotatably mounted on said member and resting upon the floor, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at the will of the operator, and a member interposed between the roll of material and the material receiving roller and over which the material passes, said member being so positioned that the material passing thereover is in contact with the floor.

6. In a device of the character described adapted to be moved over a floor, a member moveably contained within the device, resilient means tending to move said member downwardly towards the floor, a roll of flaccid material removably and rotatably mounted on said member and resting upon the floor, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at will of the operator, and a member interposed between the roll of

material and the material receiving roller and over which the material passes, said member being so positioned that the material passing thereover is in contact with the floor, the roll of material and the member over which the material passes being so positioned in relation to one another that one side of the material when on the roll is in contact with the floor and the other side of the material when the material is passing over the member is in contact with the floor.

7. In a device of the character described adapted to be moved over a floor, a member moveably contained within the device, resilient means tending to move said member downwardly towards the floor, a roll of flaccid material removably and rotatably mounted on said member and resting upon the floor, a brake for retaining the roll of material against free rotation, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at will of the operator, and a member interposed between the roll of material and the material receiving roller and over which the material passes, said member being so positioned that the material passing thereover is in contact with the floor, the roll of material and the member over which the material passes being so positioned in relation to one another that one side of the material when on the roll is in contact with the floor and the other side of the material when the material is passing over the member is in contact with the floor.

8. In a device of the character described adapted to be moved over a floor, a substantially U-shaped member swingably contained within the device, resilient means tending to swing said U-shaped member downwardly towards the floor, a roll of flaccid material removably and rotatably mounted between the legs of the U-shaped member and resting on the floor, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at the will of the operator, and a member interposed between the roll of material and the material receiving roller and over which the material passes, said member being so positioned that the material passing thereover is in contact with the floor.

9. In a device of the character described adapted to be moved over a floor, a substantially U-shaped member swingably contained within

the device, resilient means tending to swing said U-shaped member downwardly towards the floor, a roll of flaccid material removably and rotatably mounted between the legs of the U-shaped member and resting on the floor, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at the will of the operator, and a member interposed between the roll of material and the material receiving roller and over which the material passes, said member being so positioned that the material passing thereover is in contact with the floor, the roll of material and the member over which the material passes being so positioned in relation to one another that one side of the material when on the roll is in contact with the floor and the other side of the material when the material is passing over the member is in contact with the floor.

10. In a device of the character described adapted to be moved over a floor, a substantially U-shaped member swingably contained within the device, resilient means tending to swing said U-shaped member downwardly towards the floor, a roll of flaccid material removably and rotatably mounted between the legs of the U-shaped member and resting on the floor, a brake for retaining the roll of material against free rotation, a removable roller mounted in the device for receiving the free end of the roll of material and rotatable at the will of the operator, and a member interposed between the roll of material and the material receiving roller and over which the material passes, said member being so positioned that the material passing thereover is in contact with the floor, the roll of material and the member over which the material passes being so positioned in relation to one another that one side of the material when on the roll is in contact with the floor and the other side of the material when the material is passing over the member is in contact with the floor.

11. In a device of the character described adapted to be moved over a floor, a member resiliently mounted within the device, a roll of flaccid material rotatably supported by the member and resting upon the floor, and a roller for receiving the free end of the roll of material and rotatable at the will of the operator.

EDWARD THOMAS WALTER BAILEY.