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J. KEIL

2,069,476

KNEE SUPPORT ROLLER

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2 Sheets-Sheet 2

Fig. 3.

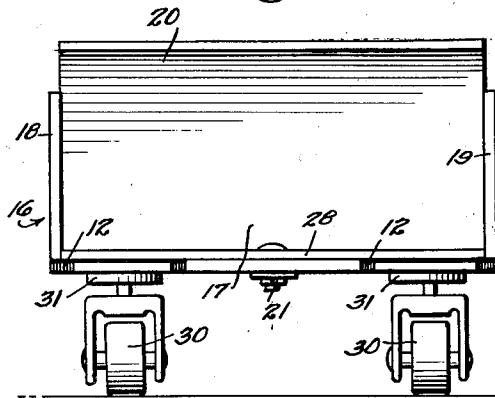


Fig. 4.

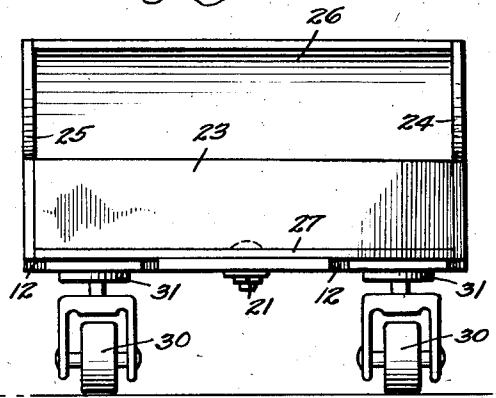


Fig. 5.

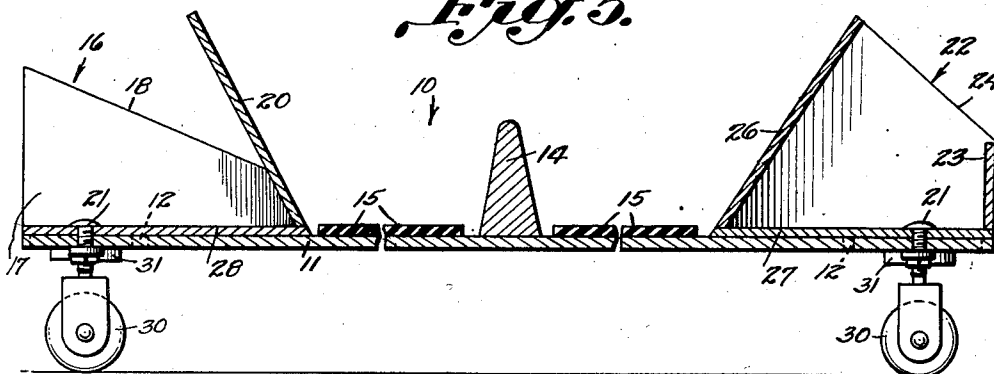
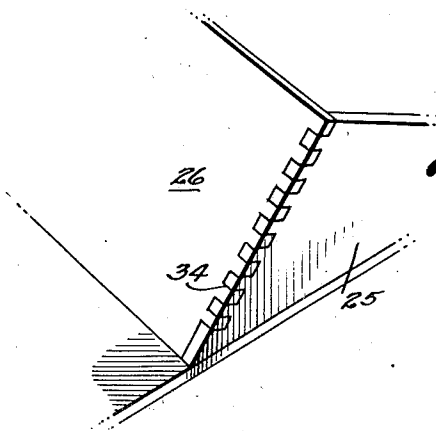


Fig. 6.



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KNEE SUPPORT ROLLER

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4 Claims. (Cl. 155—167)

This invention relates to a knee support roller and has for an object to provide an improved knee support roller especially adapted for use in scrubbing, waxing or painting floors.

5 A further object of this invention is to provide a support especially adapted for comfortably supporting a person in kneeling position while in the act of scrubbing, waxing or painting a floor, and further which support shall also contain some of the materials necessary in these operations, the support being provided with a soap box at one end and a brush box at the other end in convenient position.

15 Still a further object of this invention is to provide a knee support for a person in kneeling position, which can quickly and easily roll over the floor to any desired position, carrying the kneeling person as well as the soap, brushes or other materials being used.

20 A further object of this invention is to provide a knee support roller that may be made of wood, metal, aluminum, hard rubber composition of other suitable materials suitably secured together.

25 With the foregoing and other objects in view, as will hereinafter become apparent, this invention comprises the constructions, combinations and arrangements of parts, hereinafter set forth, disclosed and shown on the accompanying drawings. In these drawings,

30 Figure 1 is a perspective view of the invention,

Figure 2 is a bottom plan view of the same,

Figure 3 is an end view looking from the left of Figure 1,

35 Figure 4 is an end view looking from the right of Figure 1,

Figure 5 is an enlarged sectional view taken on the line 5—5 of Figure 2,

Figures 6 and 7 are perspective views of modified forms of joints, and

40 Figure 8 is a sectional view of the support and brush box taken approximately on the line 8—8 of Figure 2.

There is shown at 10 the knee support roller constituting this invention. This knee support roller 10 includes a foundation chassis member 11 substantially rectangular in outline and made of wood, aluminum, hard rubber composition, or other suitable material or metal. As clearly brought out in Figure 2, this foundation chassis member 11 is cut away in each corner at 12, leaving each end of the foundation chassis member 11 T-shaped in bottom view.

Integrally located on the top of the foundation chassis member 11 is a bevelled dividing bar 14 55 dividing the foundation chassis member into two

equal sections. On either side of the bevelled bar 14 is located a soft absorbent pad 15 of soft rubber or other suitable material. Each pad 15 extends along the length of the foundation chassis member 11 a sufficient width to comfortably support a person in kneeling position thereon.

A brush containing box 16 having one end open as at 17 and containing side walls 18 and 19 and a sloping wall 20 is secured by bolts and nuts 21 firmly to the foundation chassis member 11 at one T-shaped end thereof. Another box 22, preferably intended to contain soap, or other necessary materials, is located at the other T-shaped end of the foundation chassis 11, being secured thereto in a similar manner by similar bolts and nuts 21. This soap box 22 preferably has four walls, an end wall 23, two side walls 24 and 25 and a sloping wall 26 adjacent the knee position. The soap box 22 is provided with a floor 27 and the brush box 16 is provided with a floor 28 through which the bolt and nut 21 extends, these floors 27 and 28 being provided if desired with drain openings 29.

As will be observed the floor 27 of the soap box 22 and the floor 28 of the brush box 15 each extends over the recess or cut out portions 12 of the foundation chassis 11. Caster or roller members 30 having suitable pivoting supports 31, are fastened to the bottom of the floors 27 and 28 at these cut out portions 12. By thus fastening these caster supports 31 at these cut out or recessed portions 12, the knee support roller 10 may be supported in a lower position, closer to the floor, making it more convenient for the operator to more easily reach the floor without excessive bending or kneeling.

In operation, the brushes and cloths may be carried in the brush box 16 while the soap, wax or painting material may be carried in the soap box 23. With the operator kneeling on the pad 15 the scrubbing, waxing, or painting operations may be easily carried on in a convenient position. As shown in Figure 6, the sides of the brush and soap box may be joined by tongue and groove joints 34. In another form the sides of the brush and soap box may be joined by dove tailed joints as shown at 33 in Figure 7.

The operator kneels on the pads 15 thereby placing the receptacle to either side of his body. When kneeling in this position he may advance in any direction forwardly, backwardly, or toward either side, these casters being pivotally offset, allowing movement in any direction but being shown in Figure 2 for movement toward either side. If the operator should choose to 55

move forwardly the casters will merely rotate and allow him to advance forwardly or at any angle he may desire.

The novel features and the operation of this device will be apparent from the foregoing description. While the device has been shown and the structure described in detail, it is obvious that this is not to be considered limited to the exact form disclosed and that changes may be made therein within the scope of what is claimed without departing from the spirit of the invention.

Having thus set forth and disclosed the nature of this invention, what is claimed is:

1. For use in floor cleaning, waxing or painting operation, a knee support roller, said knee support roller comprising an elongated chassis member, wheel means movably supporting said chassis member, means on said chassis member for supporting operating material, said operating material supporting means comprising a three sided box at one side of said chassis member, and a four sided box at the other side of said chassis member, and draining means extending through said operating material supporting means, the side of each box nearest the center of said chassis sloping away from the center of said chassis to thereby provide additional space for the body of the operator.
2. For use in cleaning, waxing or painting floors, a roller vehicle, said vehicle comprising an elongated chassis member, a dividing member on and extending across the center of said chassis member, cushioning means supported on said chassis member on each side of said dividing member, said cushioning means being adapted to receive and support a person in kneeling position thereon, operating material receiving means having inner opposing sides sloping upwardly away from each other located at each side of

said chassis member, said chassis member being cut away at each corner thereof, and roller means secured to said operating material supporting means at said cut away corners of said chassis to support said chassis at a low position.

3. For use in cleaning, waxing or painting floors; a kneeling truck, said kneeling truck comprising an elongated chassis member, a wedge shaped dividing member on and extending across the center of said chassis member, the base of the wedge of the dividing member resting on the chassis member, cushioning means supported on said chassis member on each side of said dividing member, operating material receiving boxes located at each side of said chassis member, the side walls of said operating material receiving boxes on the side toward the center of the chassis member sloping away therefrom to provide additional operator receiving space.

4. For use in cleaning, waxing or painting floors; a kneeling truck, said kneeling truck comprising an elongated chassis member, a wedge shaped dividing member on and extending across the center of said chassis member, the base of the wedge of the dividing member resting on the chassis member, cushioning means supported on said chassis member on each side of said dividing member, operating material receiving boxes located at each side of said chassis member, the side walls of said operating material receiving boxes on the side toward the center of the chassis member sloping away therefrom to provide additional operator receiving space, said chassis member being cut away at each corner thereof, said cut away portion extending to the edges of said truck, and roller means secured to said operating material supporting boxes at said cut away corners of said chassis to support said chassis at a low position.