

Nov. 30, 1926.

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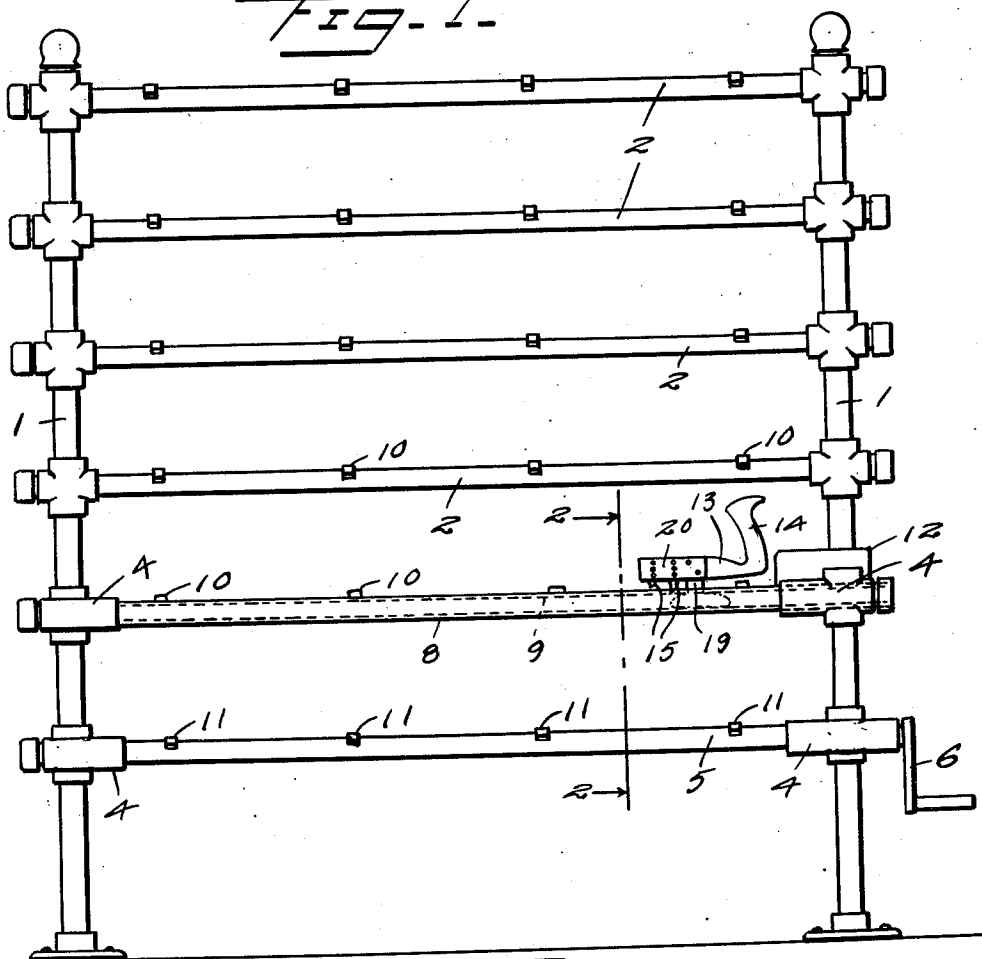
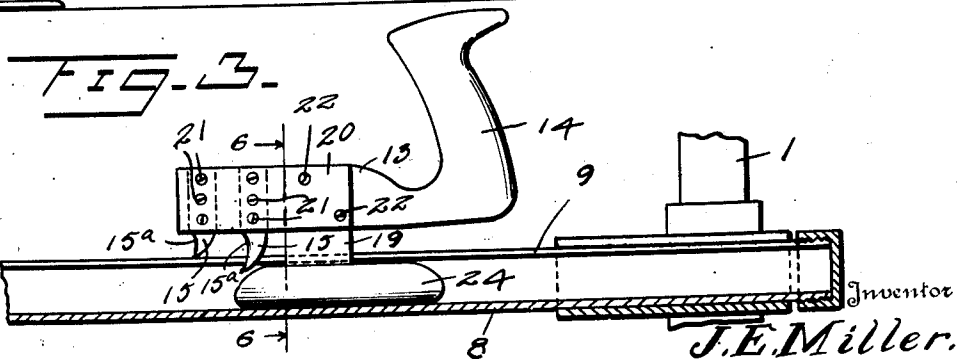
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LINOLEUM CUTTER

Filed April 9, 1925

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FIG. 1.



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Nov. 30, 1926.

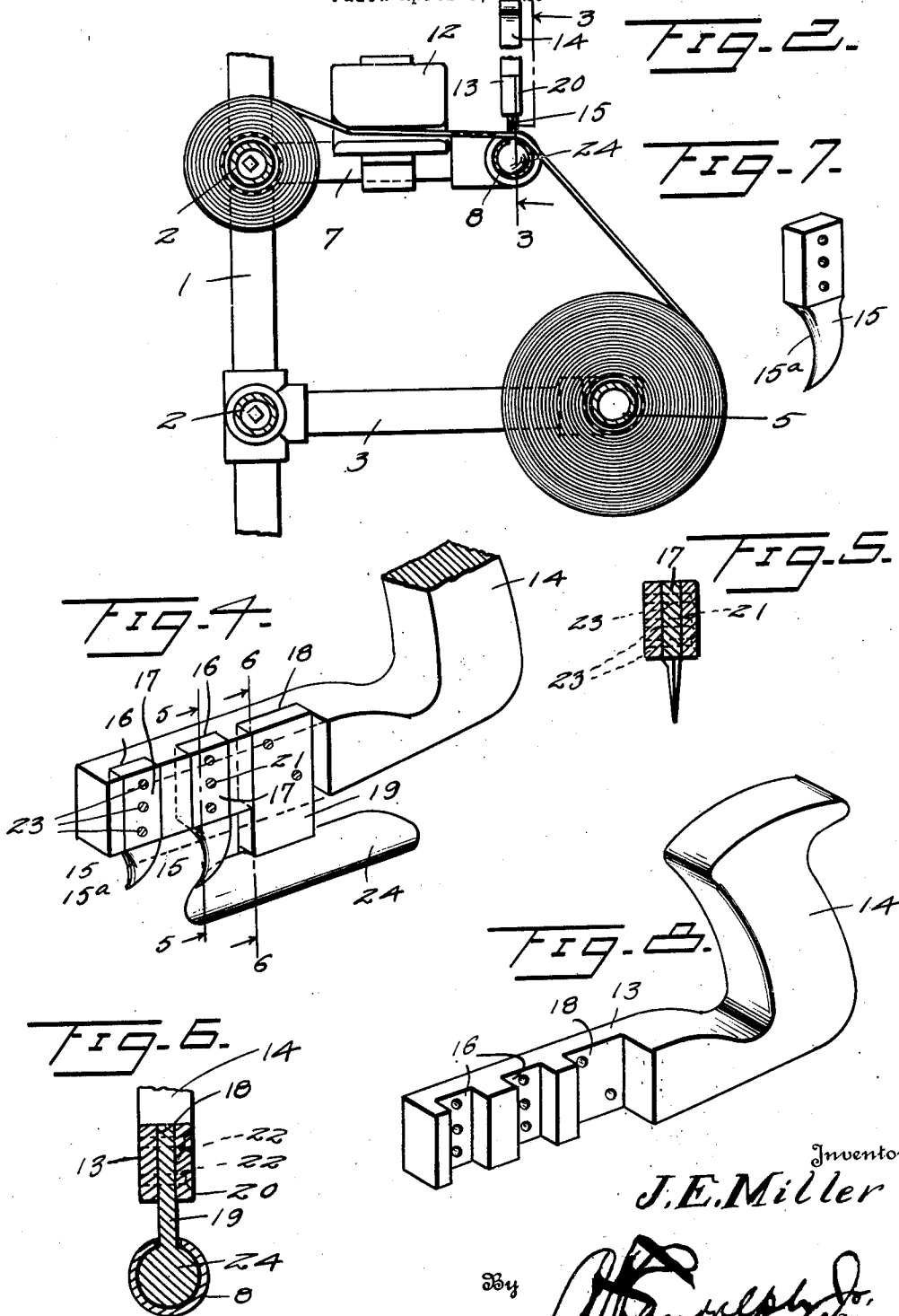
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2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE.

JOHN EDWARD MILLER, OF HUNTINGTON, WEST VIRGINIA.

LINOLEUM CUTTER.

Application filed April 9, 1925. Serial No. 21,921.

This invention relates to cutters and more particularly to devices of this character especially designed for cutting linoleum.

The invention has for one of its objects the provision of a novel, simple and inexpensive cutter which shall be especially adapted for use in connection with the linoleum displaying and dispensing rack forming the subject matter of my copending application, filed January 27, 1925, and serially numbered 5,155, and by means of which a purchased length of linoleum can be severed entirely by hand from a display roll or the like.

The foregoing and other objects are attained by the construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, wherein:

Figure 1 is a view in front elevation of the linoleum rack equipped with a cutter constructed in accordance with the present invention,

Figure 2 is a sectional view taken on the vertical plane indicated by the line 2—2 of Figure 1,

Figure 3 is a similar view taken on the vertical plane indicated by the line 3—3 of Figure 2,

Figure 4 is a perspective view of the cutter removed from the rack,

Figure 5 is a sectional view taken on the plane indicated by the line 5—5 of Figure 4,

Figure 6 is a sectional view taken on the plane indicated by the line 6—6 of Figure 4,

Figure 7 is a detail perspective view of one of the blades of the cutter, and

Figure 8 is a detail perspective view of the shank and handle of the cutter.

Corresponding and like parts are referred to in the following description, and designated in the several views of the accompanying drawings by similar reference characters.

The linoleum rack forming the subject matter of my aforesaid copending application is in part illustrated in the accompanying drawings for the purpose of illustrating the application of the cutter, and as shown the rack embodies standards 1 and rollers 2 journaled on the standards 1 and adapted to support rolls of linoleum. Arms 3 are secured to and extend forwardly from the standards 1, and are situated below the lowermost roller 2 and provided at their outer ends with bearings 4 fully open at their upper sides. A roller 5 upon which the pur-

chased length of linoleum is adapted to be wound is journaled in the bearings 4 and is provided at one end with a hand crank 6. Arms 7 are secured to and project forwardly from the standards 1. These arms are shorter than and located above the arms 3 and have secured to their outer ends a bar 8 which is hollow and provided in its upper side with a longitudinally extending slot 9.

When it is desired to wind a roll of linoleum one of the rollers 2, it is first mounted upon the roller 5. This may be done by lifting this roller out of its bearings 4, inserting it in the roll of linoleum, and thence replacing it with the roll thereon in its bearings. The free end of the linoleum is then secured to the roller upon which it is to be wound by clips 10, after which the roller is rotated by means of a hand crank 6 to wind the linoleum thereon. The hand crank 6 is adapted to be detachably connected to any of the rollers 2 and to the roller 5. When it is desired to measure off a purchased length of the linoleum, the free end of the linoleum is attached to the roller 5 by clips 11. This roller is then rotated by the hand crank 6 until the pointer of a measuring device 12 carried by one of the arms 7 registers with the figure on the dial thereof corresponding to the length of linoleum purchased. The linoleum being wound upon the roller 5 passes over the tube or bar 8, and by cutting the linoleum in alignment with the slot 9 of the bar 8 the purchased length of linoleum is served from the roll upon the roller 2. The linoleum may be readily removed from the roller 5 by first removing the latter from the bearings 4.

In accordance with the present invention the cutter for severing the purchased length of linoleum, comprises a horizontal shank 13, a handle 14 extending upwardly from one end of the shank, and blades 15 depending from the shank and arranged one in advance of the other. The shank 13 is provided with vertical recesses 16 for the reception of the stems 17 of the blades 15 and a vertical recess 18 for the reception of the upper end of a support 19. A plate 20 extending across the open sides of the recesses 16 and 18 is together with the blades 15 and the support 19 secured in place by means of screws 21 engaging the plate, stems 17 and the shank and screws 22 engaging the plate, support and shank. To permit the blades 15 to be adjusted vertically with respect to

the shank 13, the stems 17 thereof are each provided with a vertical series of screw receiving openings 23. At its lower end the support 19 is provided with a cylindrical head 24 which is slidably positioned in the bar 8 with the support extending through the slot 9 of the bar. The support 19 holds the cutter above the bar 8 with the blades 15 in alinement with the slot 9. The sides of the support 19 contact with the side walls of the slot 9, and the head 24 has a snug fit within the bar 8. Due thereto and as the support 19 is of considerable width and the head 24 of considerable length, the cutter is held against rocking or tilting movement with respect to the bar 8. It may however be freely moved along the length of the bar 8, and when so moved the blades 15 thereof sever the purchased length of linoleum. The blades 15 are provided with concave cutting edges 15 and the lower end of the second blade is located below the corresponding end of the first blade in order to reduce to the minimum the force required to pass the blades through the linoleum. As the blades 15 are adjustably connected to the shank 13, the cutter may be readily adapted for severing linoleum of different thicknesses.

As shown in Figure 1, the cutter is normally positioned adjacent one end of the bar 8 outwardly beyond the path of the linoleum passing over said bar during the winding thereof onto the roller 5. After the purchased length of linoleum has been wound upon the roller 5, the cutter is moved along the bar to sever the purchased length of linoleum. As it is freely slidable along the length of the bar 8 and as it is held

against any but a sliding movement with respect to the bar, and due to the formation of the cutting edges of the blades 15 and the arrangement of the lower ends of the blades in relatively different horizontal planes, the cutter may be operated to sever the linoleum with the expenditure of but little energy.

It should be understood that the drawings are merely illustrative and do not pretend to give exact proportions. Furthermore, the said drawings are illustrative of a preferred construction, it being my expectation that various changes and modifications may be made without departing from the spirit and scope of my invention.

What is claimed is:—

In combination, a tube provided in the side thereof with a slot, a cylindrical head slidably mounted in the tube and provided with a support extending through the slot and contacting with the side walls thereof, a shank parallel with the tube and provided intermediate its ends with a recess for the reception of the outer end of the support, a handle carried by the shank at one side of the support, said shank being provided at the opposite side of the support with spaced recesses, blades secured within said last named recesses and extending from the shank for different distances in the direction of the tube, the blade extending beyond the shank for the greater distance entering the slot, and means securing the shank to the support.

In testimony whereof I affix my signature.

JOHN EDWARD MILLER.