Feb. 25, 1958 C. D. EMBREE 2,824,774

DISPENSING MACHINES

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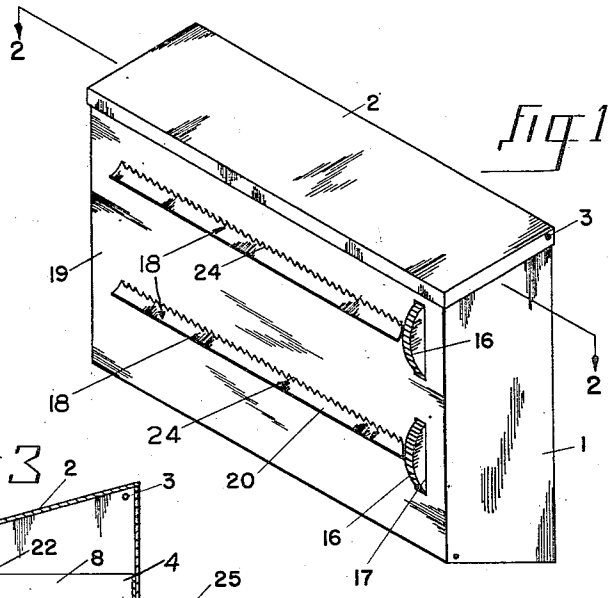


Fig-1

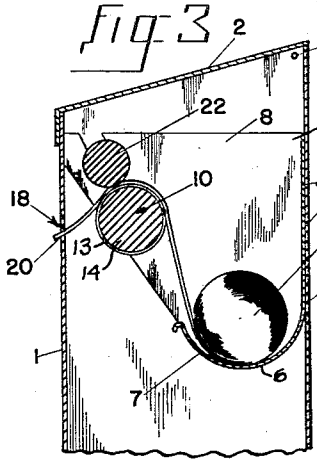


Fig-3

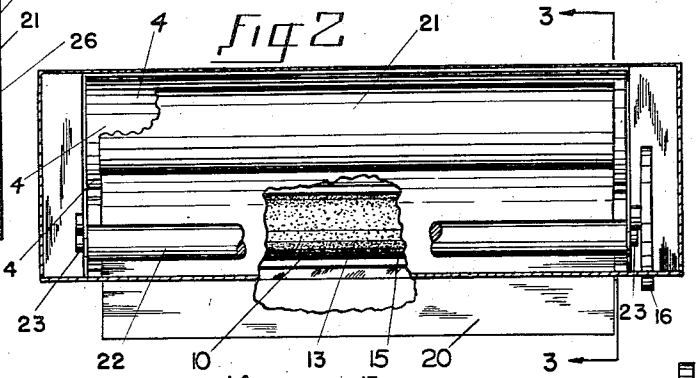


Fig-2

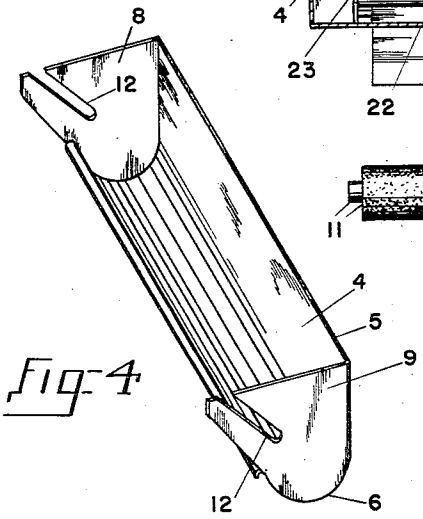


Fig-4

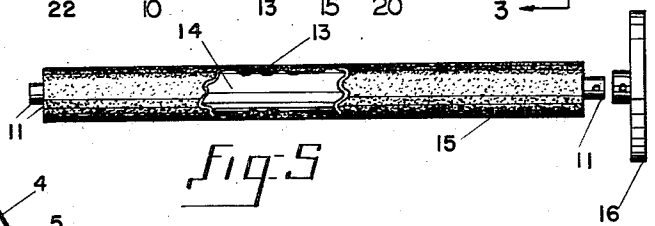


Fig-5

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DISPENSING MACHINES

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3 Claims. (Cl. 312—39)

This invention relates to dispensing machines and more particularly relates to a dispensing machine adapted for dispensing sheet material from rolls.

The object of the invention is to provide a holder for holding a roll of sheet material within a dispensing machine housing in such manner that, the material can be grasped from the outside of the housing, unrolled from the roll within the housing and torn off to provide a sheet or strip of the desired length.

A further object of the invention is to provide a dispensing housing for receiving a plurality of rolls so that different kinds of sheet material in roll form may be carried therein, such as foil paper, wax paper, or other types of paper commonly used.

Generally the invention comprises a dispensing housing within which two rollers are provided between which the web of sheet material is fed as it is unwound from the roll and passes out of the housing. One of these rollers is operated by a hand wheel and has a roughened surface that will cause even a web of the smoothest sheet material to frictionally, nonslippingly engage between the rollers for moving the web out of the housing or cabinet through an opening in the front thereof.

The novel features that are considered characteristic of the invention are set forth with particularity in the appended claims. The invention itself, however, both as to its organization and its method of operation, together with additional objects and advantages thereof, will best be understood from the following description of a specific embodiment when read in connection with the accompanying drawings, wherein like reference characters indicate like parts through the several figures and in which:

Figure 1 is a perspective view of the dispensing machine for vending webs of sheet material from more than one roll.

Figure 2 is a plan sectional view, taken on line 2—2 of Figure 1, illustrating how the roll of sheet material is housed within the housing of the machine, parts being shown broken away for convenience of illustration.

Figure 3 is a fragmentary end sectional view of the dispensing machine, taken on line 3—3 of Figure 2.

Figure 4 is a perspective view of the roll holder removed from the dispensing machine housing.

Figure 5 is a detail of the feeding roller, parts broken away for convenience of illustration.

Referring specifically to the drawings, the new and improved dispensing machine comprises a housing or cabinet 1, having a lid 2 hingedly mounted thereon at 3. Located within the housing are paper roll holders 4. Each holder 4 comprises a back wall 5 which is rolled under at 6, coming up in front to rolled front edge 7 forming a trough in which a roll of sheet material seats. End walls 8 and 9 close the ends of the trough and extend above edge 7.

A web feeding roller 10 is journalled between the ends 8 and 9 of the holder 4 above and forwardly of the front edge 7 of the trough. This roller has extensions or

spindles 11 extending on either end adapted to drop down into the bottom of slots 12, which slots open through the upper edges of end walls 8 and 9 and extend downwardly and rearwardly therefrom, as best illustrated in Figure 3.

A cover or sleeve 13 having a roughened surface surrounds the core 14 of the roller 10 which frictionally grips the surface of the web of sheet material when revolved by the operator dispensing the sheet material, which may be wax paper or the like, out of the housing. The roller 10 is revolved by the hand wheel 16 keyed on the spindle 11 at one end of the roller, a portion of the periphery of the wheel extending out through a slot 17 in the front 19 of the housing 1.

Transverse slots 18 extend across the front 19 of the cabinet which permits the web 20 of the roll of sheet material 21 to pass through, as best illustrated in Figures 1, 2 and 3.

A transversely extending hold down or pressure roller 22 extending between the ends 8 and 9 of the trough has spindles 23 extending beyond each end and adapted to drop down into the slots 12 of the roll holder 4 so that the hold down roller rests on top of feed roller 10. This holds the web 20 unwound from the roll 21 tightly down against the roughened surface 13 of the roller 10 so that when the roller 10 is revolved it will pull the paper off the roll and extend it out through the slot 18. The upper edge of the slot 18 is serrated at 24 so that the paper can be torn off easily into sheets of any desired length.

The back wall of each roll holder 4 is fixedly secured at 25 to the back 26 of the housing 1, as best illustrated in Figures 2 and 3.

Although a certain specific embodiment of the invention has been shown and described, it is obvious that many modifications thereof are possible. The invention, therefore, is not to be restricted except insofar as is necessitated by the prior art and by the spirit of the appended claims.

What I claim is:

1. In a dispensing machine for a roll of sheet material, a holder comprising a trough shaped member for loosely retaining a roll of sheet material and having upstanding side walls extending above and forwardly beyond the front edge of the trough, said side walls having downwardly and rearwardly extending slots opening at their upper ends through the top edges thereof, a dispensing roller having the ends thereof journaled in said slots and being disposed above and forwardly of the front edge of said trough, said dispensing roller having a roughened cylindrical surface for frictionally engaging the web of a roll of sheet material and unwinding the same from a roll of sheet material disposed in said trough as the roller is rotated, and a hold down roller journaled in said slots and gravitationally bearing against said dispensing roller for maintaining the web of a roll of sheet material to be dispensed in contact with the roughened surface of said dispensing roller.

2. A dispensing machine comprising a housing having front, back, top and bottom walls, said front wall having at least one dispensing slot extending thereacross for dispensing a web of sheet material from the housing, at least one holder within said housing, said holder comprising a trough shaped member for loosely retaining a roll of sheet material and having upstanding side walls extending above and forwardly beyond the front edge of the trough, said side walls having downwardly and rearwardly extending slots opening at their upper ends through the top edges thereof, a dispensing roller having the ends thereof juornaled in said slots and being disposed above and forwardly of the front edge of said trough, said dis-

pensing roller having a roughened cylindrical surface for frictionally engaging the web of a roll of sheet material and unwinding the same from a roll of sheet material disposed in said trough as the roller is rotated, a hold down roller journaled in said slots and gravitationally bearing against said dispensing roller for maintaining the web of a roll of sheet material to be dispensed in contact with the roughened surface of said dispensing roller, said rollers being disposed adjacent said dispensing slot, and means for rotating said dispensing roller comprising a hand wheel keyed to said dispensing roller and projecting exteriorly of said housing.

3. A dispensing machine comprising a housing having front, back, top and bottom walls, said front wall having at least one dispensing slot extending thereacross for dispensing a web of sheet material from the housing, at least one holder within said housing, said holder comprising a trough shaped member for loosely retaining a roll of sheet material and having upstanding side walls extending above and forwardly beyond the front edge of the trough, said side walls having downwardly and rearwardly extending slots opening at their upper ends through the top edges thereof, a dispensing roller having the ends

thereof journaled in said slots and being disposed above and forwardly of the front edge of said trough, said dispensing roller having a roughened cylindrical surface for frictionally engaging the web of a roll of sheet material and unwinding the same from a roll of sheet material disposed in said trough as the roller is rotated, a hold down roller journaled in said slots and gravitationally bearing against said dispensing roller for maintaining the web of a roll of sheet material to be dispensed in contact with the roughened surface of said dispensing roller, said rollers being disposed adjacent said vending slot, and means for rotating said dispensing roller comprising a hand wheel keyed to said dispensing roller and projecting exteriorly of said housing, said holder having the back wall thereof attached to the back wall of said housing.

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