Jan. 14, 1936. D. R. ANDERSON 2,027,461

WIPER FOR ADHESIVE APPLYING IMPLEMENTS

Filed March 13, 1934

Fig. 1.

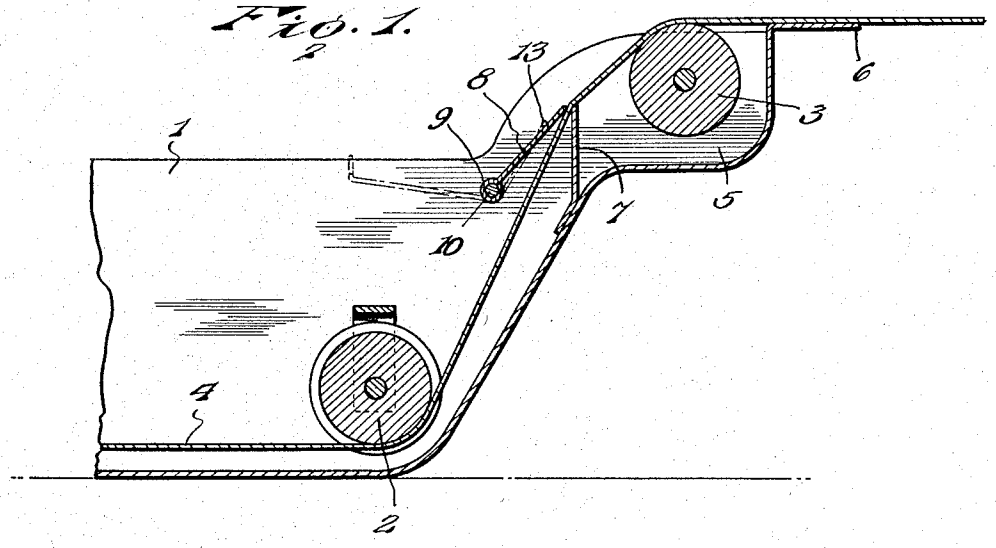
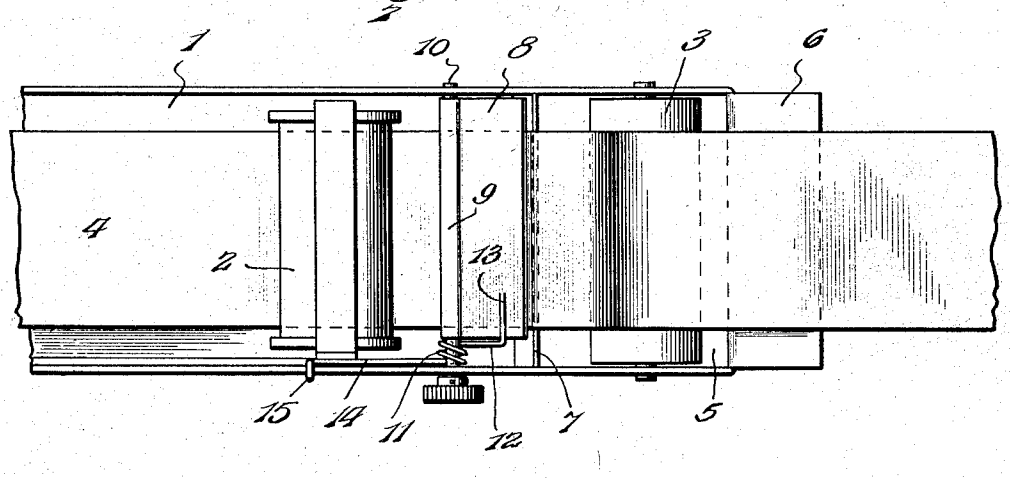


Fig. 2.



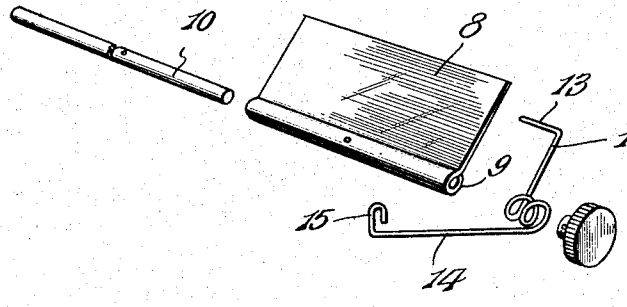


Fig. 3.

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WIPER FOR ADHESIVE-APPLYING IMPLEMENTS

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Application March 13, 1934, Serial No. 715,348

1 Claim. (Cl. 91—53)

In the use of plaster wall board, the edges of the wall board sections are nailed or otherwise secured to the studding of the building so that the edges of adjacent wall board sections will abut. It is customary to apply to these joints a tape which has been coated with glue so that a smooth surface will be provided for the subsequent application of a finish coat of paint or other material. The application of the tape or strip of material to the joint reinforces a weak point, and prevents cracking at the joint after the wall is finished. The glue or other adhesive is applied to the tape by causing the tape to travel through a tank containing the adhesive, the tape being guided through the tank by passing around suitable rollers at the bottom and ends thereof, and, at the present time, the surplus glue is removed from the tape by rubbing a stick over the coated surface. It is the object of the present invention to provide a simple wiper which may be readily mounted in the tank and will operate automatically to remove the surplus adhesive from the tape and leave a proper coating sufficient to retain the tape in position when it is applied to the wall joint. Such a device is illustrated in the accompanying drawing and will be hereinafter fully described, the invention residing in certain novel features which will be particularly defined in the appended claim.

In the drawing

Figure 1 is a longitudinal section of one end of a tank having my invention applied thereto,

Figure 2 is a plan view of the same,

Figure 3 is a detail view showing the parts of the movable wiper in perspective and separated but in their proper relative positions.

The tank 1 may be of any known or approved construction, containing a guide roller 2 near its bottom and a second guide roller at its top at one end, as shown at 3, the adhesive-carrying tape being indicated at 4. It will be readily noted that the tank is formed with an elevated well 5 at its delivery end and a shelf 6 extends from the upper edge of said well, the guide roller 3 being mounted in the well. This particular construction, however, is not essential and is a well-known form of glue container tank.

In carrying out the present invention, a plate 7 is secured upon the bottom of the tank, immediately adjacent the wall 5, and rises vertically therefrom, this plate being secured rigidly in position and the tape passing over the upper edge of the plate, as shown clearly in Figure 1. A movable wiper plate 8 is mounted in the tank to cooperate with the stationary wiper plate 7 and this plate 8, as shown clearly in Figures 2 and 3, is of such dimensions that it will extend over the entire width of the tape 4 which is passing over the upper edge of the stationary plate 7, one edge of the plate 8 being formed into a bead or tube 9 through which a pintle rod 10 may be inserted, the ends of the rod being engaged in openings provided therefor in the side walls of the tank so that the rod will support the wiper plate 8 and the plate may swing about the rod so that it may be turned up out of the way when a tape is being initially threaded through the tank, as will be understood. The wiper plate 8 is held toward the stationary wiper plate and caused to bear constantly upon the tape by a spring 11 which has its intermediate portion coiled about the end of the rod 10 between the plate and the adjacent side wall of the tank, as shown clearly in Figure 2, one end portion of the spring being extended, as shown at 12, and having its extremity 13 engaged over the end of the wiper plate so as to bear upon the upper surface of the same. The opposite end portion of the spring is extended, as shown at 14, alongside the wall of the tank and has its extremity formed into a hook 15 which is engaged over the edge of the tank wall, as will be understood, whereby the force of the spring is exerted to hold the wiper plate 8 yieldably to the tape and the stationary wiper plate.

From the foregoing description, it will be readily noted that the tape is threaded through the tank in the usual manner and is delivered over the roller 3. The tank, of course, is filled or partly filled with glue or other adhesive and the adhesive will be taken up by the surface of the tape so that the tape will be thoroughly coated. As the tape passes over the stationary wiper plate and under the yieldably mounted wiper plate, the surplus adhesive will be scraped from the tape and returned to the tank while the properly coated tape may be drawn out to any desired extent and cut off in the proper length for use. The device is very simple and is not apt to get out of order while it will operate automatically and efficiently whenever tape is being drawn from the tank. It will be noted, particularly upon reference to Figure 1, that the stationary wiper plate is located above the guide roll 2 and near the upper roller 3 in such position that the tape is bent slightly at the wiper as it passes over the edge of the wiper, any wrinkles or creases which may have been left in the tape being consequently pressed out. The movable wiper plate is pivoted at a point below the upper edge of the stationary plate and is inclined upwardly toward the sta-

tionary plate so that it offers minimum resistance to the passage of the tape while acting thereon to hold it against the stationary plate so that any tendency of the tape to curl or twist will be overcome.

Having thus described the invention, I claim:

Means for removing surplus adhesive from a coated tape passing through a coating tank, said means comprising an upright wiper plate secured rigidly in the tank, a second wiper plate having one edge rolled to form a bead, a pintle rod held by the walls of the tank and passing through the bead of said wiper plate, and a spring having one end engaged with the wall of the tank and its opposite end bearing upon the last-mentioned wiper plate whereby said plate will be yieldably held toward the stationary wiper plate, the coated tape passing between adjacent opposed edges of the two wiper plates.

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