April 22, 1952 R. E. ROBERTS 2,593,610

CONVEYER SKIRT AND APRON HOLDER

Filed Sept. 27, 1950

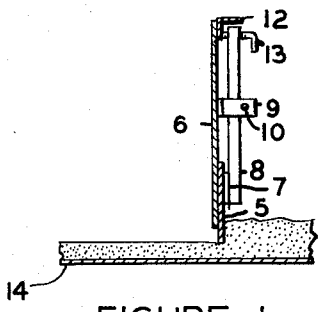


FIGURE 1.

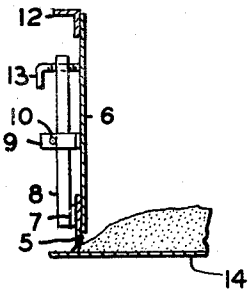


FIGURE 2.

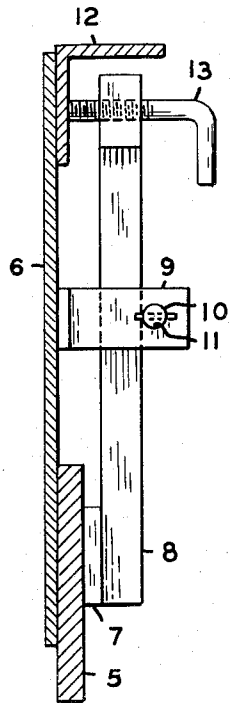


FIGURE 3.

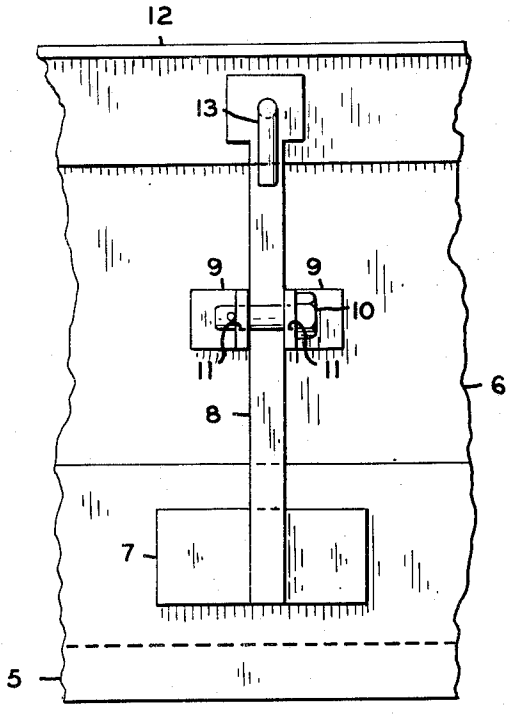


FIGURE 4.

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CONVEYER SKIRT AND APRON HOLDER

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2 Claims. (Cl. 198—204)

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This invention relates to an improved adjustable apron holder and more particularly to simplicity of design for quick adjustment and longer life of the apron or skirt.

Heretofore, aprons and skirts have been adjusted by numerous slotted holes either in the apron or holder or both and considerable labor is involved in loosening the bolts to adjust them. The punching of the slotted holes is quite expensive where hundreds of feet of belt are involved.

An object of the present invention is to eliminate the heretofore slotted holes in both the skirt or apron and also in the holder.

Another object of the present invention is to provide the lever of the holder without a fulcrum hole, a part of the invention being in the outside of the lever bearing against a fulcrum pin or bolt attached to a lug or ears. One end of the lever is adjusted by a thumb or lever clamp screw and the opposite end of the lever is provided with a plate to clamp the preferably flexible rubber or canvas apron or skirt. The apron used in this invention is not full of holes and can be adjusted from time to time as required in most installations. If the bottom edge of the apron or skirt becomes too rough or scalloped the apron or skirt may be turned upside down thus doubling the life of the material used. The lever may be shifted on the pin to change the leverage applied to the clamp by the clamp screw.

With these objects in view the invention may be more fully understod from the drawing, the following description, and the scope of the appended claims.

In the drawing:

Figure 1 is a fragmentary view of the improved apron and holder illustrated above a conveyor belt to gauge the thickness of the material being conveyed on the belt.

Figure 2 is a fragmentary view illustrating the improved holder and longitudinal skirt near the longitudinal edge of a conveyor belt to prevent the material from falling over the edge of the belt.

Figure 3 is an enlarged fragmentary view of the improved holder and apron or skirt.

Figure 4 is a fragmentary side view of Figure 3.

The elongated apron or skirt band 5 is held against a longitudinal side wall or a lateral wall 6, either a part of a conveyor or added to a conveyor depending upon the installation required; by the rectangular clamp plate 7 attached to a lever 8.

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A pair of ears, lugs or bars 9 are attached to the plate 6 above the apron, and a pin or bolt 10 spaced from plate 6 extends through the holes 11. The outside of the lever 8 extends over the edge of the pin 10 and between the lugs 9 to a position preferably near the top of the conveyor plate 6 where the angle iron 12 is attached thereto, the lever being slidably positioned between the plate 6 and pin or bolt 10.

A lever screw or thumb screw 13 is threaded through the lever 8 near the upper end thereof and preferably bears against the angle iron 12, or may bear against the plate 6 below the angle iron. The lugs or bars 9 are spaced preferably half way between the lever screw 13 and the clamp plate 7, but may be proportioned according to the desires of the maintenance men in charge of the conveyors.

The skirt when used on long conveyors is normally used in long lengths and the holders are usually spaced from 12 to 18 inches apart but the spacing is usually left to the discretion of the maintenance men in charge of the equipment to suit the type of material being conveyed on the conveyor belt 14. The illustrations in the drawing show one holder for each application but it is to be understood that a number of like clamps are to be used for a single apron or skirt.

What I claim as new and desire to secure by Letters Patent is:

1. A conveyor skirt and apron holder comprising a wall, said wall having the lower edge thereof spaced and positioned above a belt, a flexible apron, a clamp, said flexible apron being clamped by said clamp against said wall and spacing its lower edge thereof from the belt for closer gauging material thickness on the belt than said wall spacing, said apron being solid from edge to edge in breadth and length, said clamp being manually adjustable on said plate in the direction of the spacing of said wall from the belt, said apron being manually adjustable from said belt and held in position by said clamp, and said clamp being mounted on said wall.

2. A conveyor skirt and apron holder comprisa wall, said wall having the lower edge thereof spaced and positioned above a conveyor belt and

any conveyed material thickness thereon, a flexible apron, said flexible apron having a length and breadth, a clamp, said clamp being mounted on said wall, said flexible apron being clamped by said clamp against said wall to space the lower edge thereof from the belt, said apron being solid from edge to edge in breadth and length, said clamp being manually adjustable on said wall toward the belt, and said apron being manually adjustable toward the belt.

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