T. P. LITTLE.

GUIDE FOR CALENDERS.

APPLICATION FILED JUNE 25, 1919.

1,340,234. **Patented May 18, 1920.**

Fig. 1.

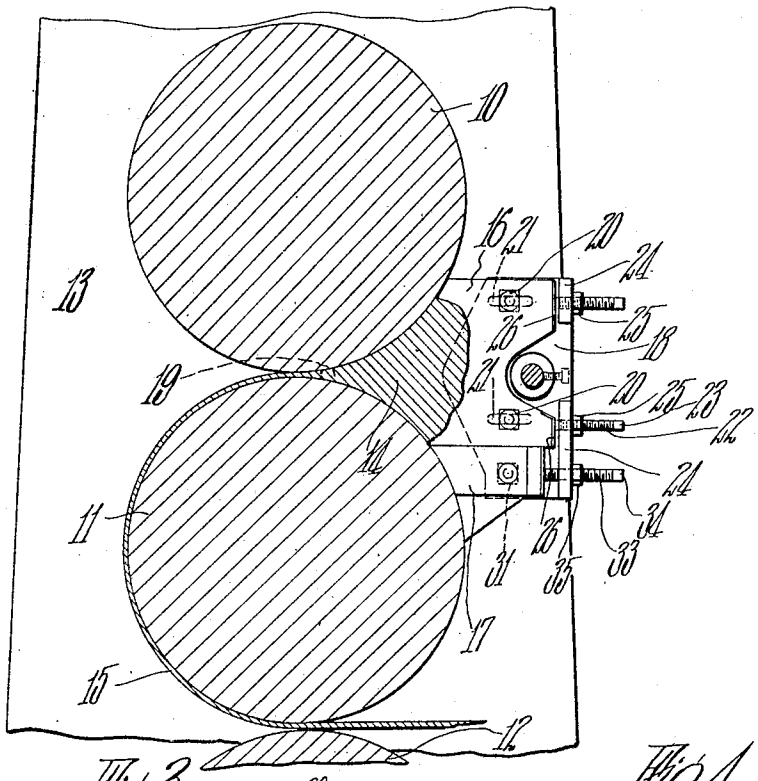


Fig. 2.

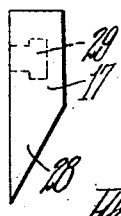


Fig. 3.

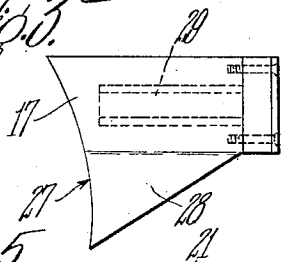


Fig. 4.

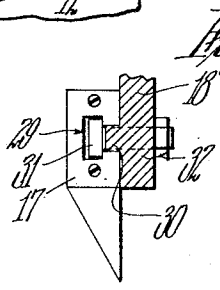
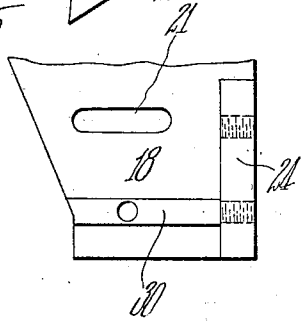


Fig. 5.



INVENTOR

Thomas P. Little.

BY Chapin & Neal.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

THOMAS P. LITTLE, OF CHICOPEE FALLS, MASSACHUSETTS, ASSIGNOR TO THE FISK RUBBER COMPANY, OF CHICOPEE FALLS, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

GUIDE FOR CALENDERS.

1,340,234. Specification of Letters Patent. Patented May 18, 1920.

Application filed June 25, 1919. Serial No 306,690.

To all whom it may concern:

Be it known that I, THOMAS P. LITTLE, a citizen of the United States of America, residing at Chicopee Falls, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Guides for Calenders, of which the following is a specification.

My invention relates to a guide for directing rubber from a bank between the rolls of a calender.

It has for its object a guide which will furnish means for compensating for wear while preventing jamming of the guide between the rolls of the calender.

The invention will be best described in connection with the accompanying drawings, in which—

Figure 1 is a vertical section through a calender showing one of my improved guides;

Fig. 2 is an end view of the deflector portion of my improved guide;

Fig. 3 is a side view thereof;

Fig. 4 is a detail showing the method of attachment of the deflector to the body portion of the guide; and

Fig. 5 is a detail of a portion of a bracket which supports both the deflector and the end pieces of the guides.

The calender rolls 10, 11 and 12 are of the usual type, carried between end frames 13 and working a bank of rubber 14 into a sheet 15. In order to prevent the bank of rubber working out beyond the end of the rolls it is customary to provide a wedge shaped piece of wood which is curved to conform to the rolls, and which is adjustable to permit of wear being taken up. It is essential to keep the guide in close contact with the roll where the rubber first comes in contact with it, as in the absence of this condition part of the rubber will work under the guide. If adjustment is made on this form of guide the point of the wedge is driven between the rolls, and splintering or breaking of the whole guide usually results.

In my improved guide I provide the usual adjustable wedge shaped end piece, and also a separately adjustable deflector which serves to strip the rubber from the calender roll and turn it toward the middle of the roll. Preferably this deflector is of metal, to provide better wearing qualities, and is located as a continuation of the end piece.

The end piece 16 and deflector 17 are mounted upon a bracket 18 attached to the end frame 13, it being understood that there are two similar but inverse guides at the opposite ends of the machine. The end piece 16 is usually of wood, and has a curved and tapered end 19 which projects into the space between the calender rolls. For purposes of adjustment the end piece has square-headed bolts 20 sunk into its surface and passing through slots 21 in the bracket. Nuts (not shown) on the end of the bolts serve to hold the end piece firmly against the bracket. When these nuts are released the end piece may be pressed toward the calender roll by screws 22, preferably square-headed, as at 23, and passing through lugs 24 in the bracket. Lock nuts 25 serve to maintain the screws in adjusted position. In order to prevent the screws from denting or splitting the end piece facing plates 26 may be attached to the latter.

The deflector 17 has its inner surface 27 curved to correspond to the shape of the calender roll, and is beveled as at 28 to present a plow-like action to the rubber forced against it by the roll's rotation. In the face of the deflector adjacent the bracket is cut a T-shaped slot 29, into which partially project a rib 30 on the bracket. A square headed bolt 31 extends into the slot, and is provided with a nut 32 by means of which the deflector may be clamped firmly in position. A screw 33, provided similarly to screws 22 with a square head 34 and a lock nut 35, passes through lug 24 and bears against a facing plate 36 on the deflector, serving to adjust the latter firmly against the calender roll.

It will be seen from the above description that the deflector will strip the rubber adhering to calender roll 11 therefrom and will turn it into the bank of rubber which is held in centralized position by end pieces 16. It will also be seen that the deflector, which is practically an extension of the end piece, can be adjusted separately from the end piece, so that close contact between the

leading edge of the guide and the calender roll may always be kept without danger of breaking the end 19 of the end piece.

I claim—

1. A guide for calender rolls comprising an end piece shaped to fit between a pair of adjacent calender rolls, a separate extension of said end piece, and means for adjusting said extension independently of the end piece.

2. A guide for calender rolls comprising an end piece shaped to fit between a pair of adjacent calender rolls, a deflector adjacent the end piece and shaped to strip adhering rubber from one of the calender rolls, and means for adjusting the deflector independently of the end piece.

3. A guide for calender rolls comprising an end piece shaped to fit between a pair of adjacent calender rolls, a deflector adjacent the end piece and presenting a plow like surface to strip adhering rubber from one of the calender rolls, and to direct it toward the middle of the roll, and means for adjusting the deflector independent of the end piece.

4. A guide for calender rolls comprising a bracket, an end piece shaped to fit between a pair of adjacent calender rolls and slidable on the bracket, adjusting means secured to the bracket to shift the end piece toward the calender rolls, a deflector shaped to conform to the calender roll and to strip adhering rubber therefrom, said deflector being also slidable on said bracket, and independent means secured to the bracket for adjusting the deflector toward the calender rolls.

THOMAS P. LITTLE.