To all whom it may concern:

Be it known that I, MARTIN CHRISTENSEN, a citizen of the United States, and resident of Racine, in the county of Racine and State of Wisconsin, have invented new and useful Improvements in Pusher Members for Book-Stitching Machines, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

The present invention relates to certain new and useful improvements in conveyers for book stitching machines and refers more particularly to the pusher members carried by the conveyers.

The primary object of the present invention is to provide a pusher member for a book stitching machine conveyer especially adapted for use with books having the ends of the cover extended beyond the ends of the book leaves and has for one object to provide what may be called an adjustable stop for leaves and extension covers.

Another object of my invention is to provide a conveyer pusher member having means for feeding the cover and leaves of a book to a stitcher in their proper relative positions which may be readily adjusted and which is readily detachable from the conveyer.

A further object of this invention is to provide a pusher member of the class described in which the book leaf engaging members serve to secure the pusher member to the book stitching machine conveyer.

With the above and other objects in view which will appear as the description proceeds my invention resides in the novel construction, combination, and arrangement of parts substantially as described and hereinafter more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claims.

In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention constructed according to the best mode I have so far devised for the practical application of the principles thereof, and in which:

Figure 1 is a side view of a movable saddle conveyer illustrating my novel form of pusher member as secured thereto.

Fig. 2 is a view part in section and part in elevation taken through the movable saddle conveyer on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of my novel form of pusher member detached from the conveyer, and

Fig. 4 is a detailed fragmentary sectional view taken on the line 4—4 of Fig. 3, said view illustrating the manner in which the book is positioned on the saddle with the cover extended beyond the leaves.

The particular form of saddle conveyer I employ with my novel form of pusher member is immaterial and in the drawing I have illustrated the same as a plurality of inverted V-shaped saddles 5 having depend-00

ing lugs for pivotally receiving the conveyer chain links 6, each member 5 having apertures 7 in its side walls for removably receiving a pusher member 8.

The pusher member 8 consists of a U-shaped member 9 adapted to be positioned with its arms projecting from the sides of any one of the members 5 through the apertures 7 as depicted in Fig. 2 and said member is secured in this position by means of book leaf engaging stops 10. A leaf engaging member 10 is secured to each arm of the U-shaped member 9 close to the point where it projects from the adjacent side wall of the saddle member 5 and is secured to said member by means of a shank portion 11 which is engaged in an aperture 12 formed in said member.

The leaf engaging members 10 have their shanks secured in the apertures 12 by means of suitable binding or set screws 13 which permit the ready adjustment of said members so that the relative distance between the front face of each book leaf engaging member and the front face of the member 9 may be readily varied.

In use, the stop 9 is adjusted so that when the book leaves 14 are placed upon the conveyer they will engage against the stop 10 which is as thick or thicker than the 130 number of leaves being worked upon and when the book cover 15 is placed thereon the same will engage the member 9 which provides a book cover stop or engaging member. If it is desired to have the ends of the cover 15 to project a quarter of an inch beyond the ends of the leaves the stops 10 are so adjusted.

As will be readily seen by reference to Fig. 2 the stops 10 provide means for secur-110
What I claim as my invention is:
1. A pusher member for a stitching machine conveyor, comprising a leaf engaging part, and a cover engaging part having its work engaging face offset with respect to the work engaging face of said leaf engaging part, whereby the cover and leaf of a book to be stitched are positioned in their proper relative positions.

2. A pusher member for a stitching machine conveyor, comprising a leaf engaging part, a cover engaging part having its work engaging face offset with respect to the work engaging face of said leaf engaging part, whereby the cover and leaf of a book to be stitched are positioned in their proper relative positions, and means for adjusting the distance between the work engaging faces of said parts.

3. A device of the class described, comprising a member for engaging a book cover, and a second member carried by said first mentioned member for engaging a book leaf, so that the ends of the cover will extend beyond the adjacent ends of the leaf.

4. A pusher member for a stitching machine conveyor comprising a book cover engaging member, and a book leaf engaging member adjustably carried by the cover engaging member and including a stop having a shank portion adjustably secured to the cover engaging member.

5. A pusher member for a stitching machine conveyor comprising a book cover engaging member, a book leaf engaging member, a securing shank formed on the leaf engaging member and slidably mounted in an aperture in the cover engaging member, and means releasably securing the shank in said aperture so that the distance between the front faces of the cover engaging member and the leaf engaging faces may be adjusted.

6. The combination with a stitching machine conveyor including inverted V-shaped saddle members, of means for positioning a book cover and leaves on the saddle members of the conveyor comprising a U-shaped member passed through the sides of one of the saddle members and having its ends extended therefrom, and a book leaf engaging stop secured to each arm of said U-shaped member close to the adjacent side of the saddle member.

7. The combination with a stitching machine conveyor including inverted V-shaped saddle members, of means for positioning a book cover and leaves on the saddle members of the conveyor comprising a U-shaped member passed through the sides of one of the saddle members and having its ends extended therefrom, a book leaf engaging stop secured to each arm of the U-shaped member close to the adjacent side of the saddle member, and means for adjustably varying the relative distance between the leading faces of the U-shaped member and the book leaf stops.

In testimony whereof, I affix my signature.

MARTIN CHRISTENSEN.