

Jan. 16, 1951

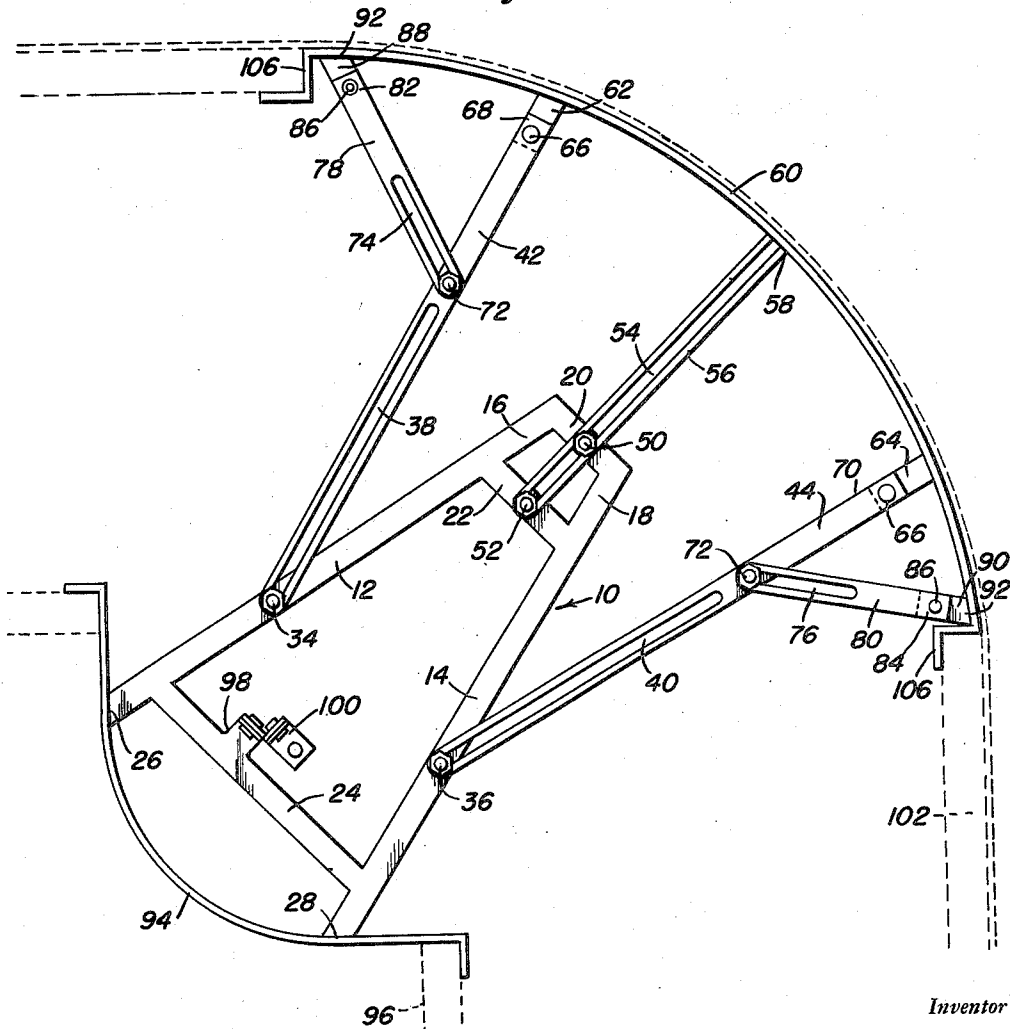
F. A. CARRETTO  
ARCUATE CONVEYER GUIDE

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Fig. 1.



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Fig. 2.

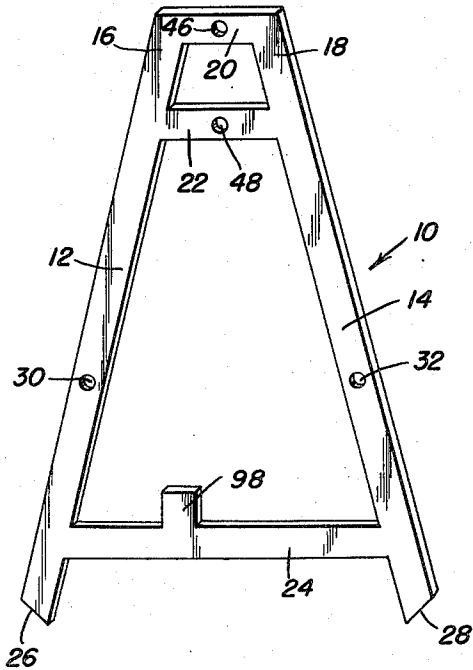


Fig. 3.

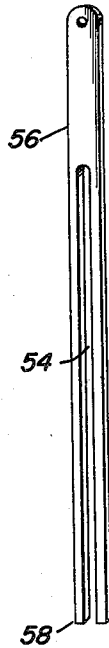


Fig. 4.

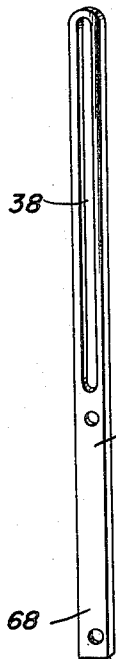


Fig. 5.

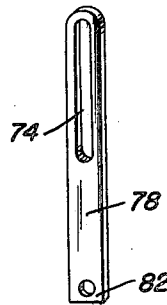


Fig. 6.

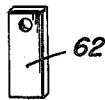
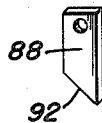


Fig. 7.



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# UNITED STATES PATENT OFFICE

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## ARCUATE CONVEYER GUIDE

Frank A. Carretto, Elgin, Ill.

Application October 23, 1947, Serial No. 781,709

1 Claim. (Cl. 198—137)

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This invention relates to new and useful improvements in devices for forming rounded corners and the primary object of the present invention is to provide a device for forming rounded corners for single chain conveyors.

Another important object of the present invention is to provide a device including novel and improved means for retaining a flexible strip of material in a selected arcuate position for forming rounded corners of various radii.

A further object of the present invention is to provide a device of the aforementioned character all parts of which are quickly and readily disassembled or assembled facilitating the convenient shipping or storage of the same.

A still further aim of the present invention is to provide a device for forming rounded corners for single chain conveyors that is simple and practical in construction, strong and reliable in use, neat and attractive in appearance, relatively inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a plan view of the present invention in use;

Figure 2 is a perspective view of the base frame used in conjunction with the present invention;

Figure 3 is a perspective view of the intermediate or main support arm used in conjunction with the present invention;

Figure 4 is a perspective view of one of the side arms used in conjunction with the present invention;

Figure 5 is a perspective view of one of the bracing or connecting arms used in conjunction with the present invention;

Figure 6 is a perspective view of one of the side arm connecting links used in conjunction with the present invention; and

Figure 7 is a perspective view of one of the securing links for the brace arms used in conjunction with the present invention.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a substantially A-shaped base frame generally, comprising a pair of forwardly converging legs 12 and 14 that are connected to each other at their forward

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spaced terminals 16 and 18 by a rigid main or forward cross member 20 and adjacent their terminals 16 and 18 by a further and intermediate rigid cross member 22. The rear portions of these legs 12 and 14 are retained in spaced apart relationship by a rear cross member 24, adjacent the inwardly inclined rear terminal edges 26 and 28 of the legs 12 and 14.

Adjustably and removably mounted in apertures 30 and 32 provided in the legs 12 and 14, adjacent the rear cross member 24, are fasteners 34 and 36 that slidably and adjustably engage longitudinal slots 38 and 40 provided in a pair of side supporting arms 42 and 44. Longitudinally aligned apertures 46 and 48 are also provided in the center of cross members 20 and 22, and adjustably receive suitable fasteners 50 and 52 that slidably and adjustably engage in longitudinal slots 54 provided in a main support arm 56, one terminal 58 of which is rigidly secured by welding or the like to substantially the center of an elongated strip of flexible material 60.

Rigidly secured by welding or the like to the strip 60, and equally spaced on both sides of the terminal 58 of arm 56, is a pair of anchor plates 62 and 64 that are pivoted by rivets or the like 66 to the outer terminals 68 and 70 of the support arms 42 and 44.

Adjustably mounted on the support arms 42 and 44, adjacent the inner terminals of the slots 38 and 40, are fasteners 72 that slidably engage slots 74 and 76 provided in a pair of brace or branch arms 78 and 80. Both terminals 82 and 84 of these brace arms 78 and 80 are pivoted by rivets or the like 86 to outwardly inclined links 88 and 90 having inclined edges 92 that are rigidly secured to the strip 60 adjacent the ends thereof and equally spaced relative to the links 62 and 64.

In practical use of the device, the edges 26 and 28 of the frame 10 are secured to an arcuate strip 94 carried by a conveyor bed 96, and an integral base plate 98 carried by member 24 is anchored as at 100 to the conveyor bed. The strip 94 constitutes an anchoring or attaching means and has no guiding function for a conveyor. By adjusting the fasteners 34, 36, 50, 52 and 72, a selected arcuate disposition of the strip 60 may be maintained, so as to round the corners for a single chain conveyor 102, with angle members 106 at the ends of the strip 60 frictionally engaging the corners of the conveyor.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the con-

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struction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

Having described the invention, what is claimed as new is:

A device for forming rounded corners for single chain conveyors comprising a base frame including a pair of leg portions and a pair of cross members between said leg portions, a central arm having a longitudinal slot therein, a pair of fasteners carried by said cross members and received in the slot in said central arm, a pair of side supporting arms having inner and outer portions, the inner portions of said side supporting arms having slots therein, another pair of fas-

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teners carried by the leg portions of said base frame and received in the slots of said inner portions, a pair of brace arms having slotted inner ends, a further pair of fasteners carried by said side supporting arms received by the slotted inner ends of said brace arms, and a flexible strip secured at its central portion to said central arm, said brace arms and said side supporting arms being pivoted to said strip.

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