

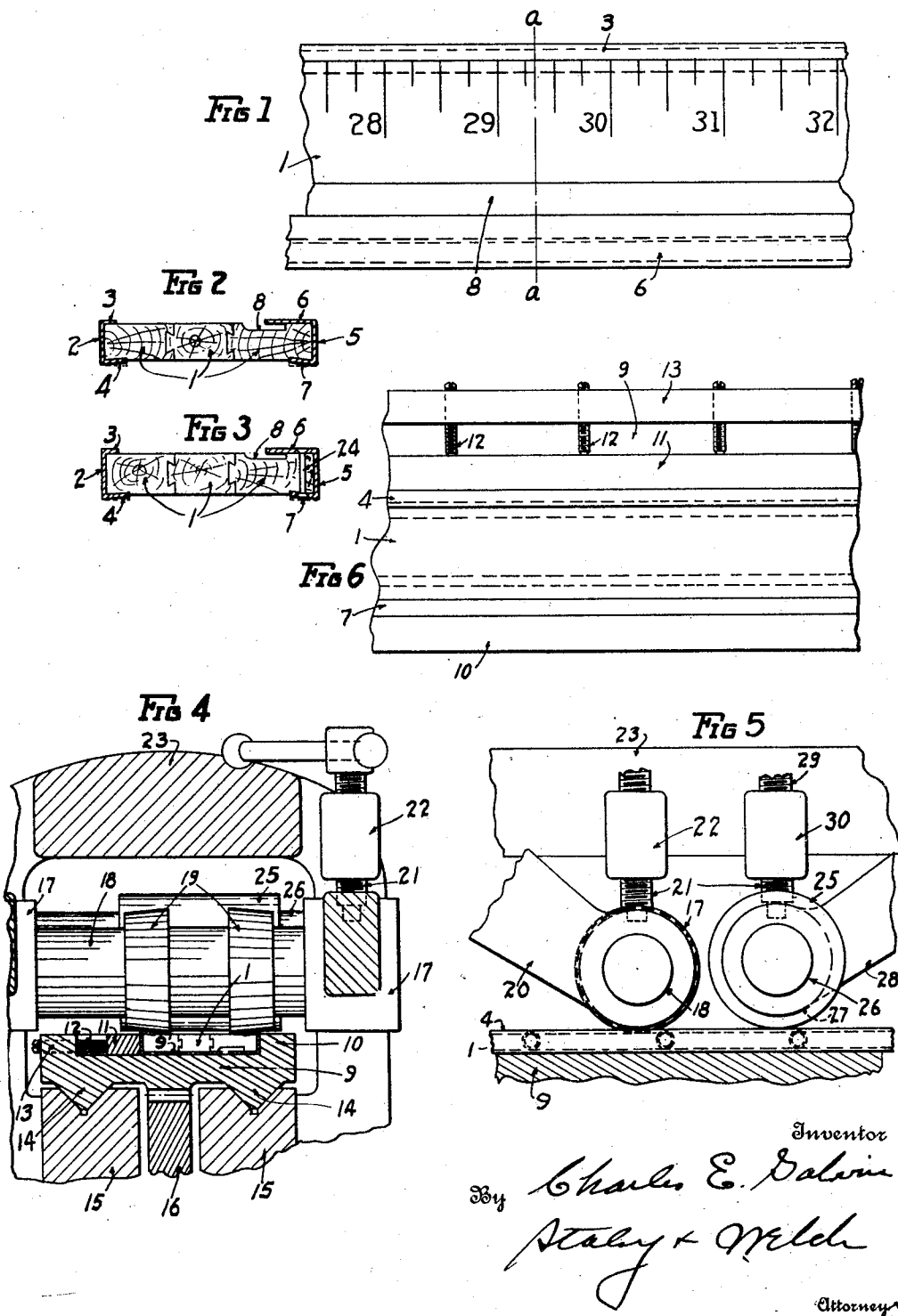
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STRAIGHTEDGE FOR WALL PAPER TRIMMERS

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STRAIGHTEDGE FOR WALL-PAPER TRIMMERS.

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My invention relates to straight edges for wall paper trimmers, it more particularly relating to a wooden straight edge having its side edges reinforced by metallic channels.

5 The object of my invention is to provide simple and effective means for securing the metallic channels in position on the wooden body of the straight edge.

In the accompanying drawings:

10 Fig. 1 is a top plan view of a straight edge shown provided with metal channels embodying the improvements.

Fig. 2 is a section on the line *a-a* of Fig. 1.

15 Fig. 3 is a similar section but showing a slight modification.

Fig. 4 is a vertical section of an apparatus which I employ for carrying out the method of applying the metal channels.

Fig. 5 is a side elevation of the same.

20 Fig. 6 is a plan view of the supporting table of the apparatus.

In Figs. 1, 2 and 3 there is illustrated a straight edge equipped with the improved metal channels, this straight edge being one 25 which is particularly intended for use in connection with cutters for trimming wall paper and the like.

The wooden portion of the straight edge is indicated at 1 and it is usual to provide the 30 sides of the wooden strip with metal channels, one of which is used solely for reinforcing purposes, while the other is employed to reinforce and also to provide an overhanging flange which receives the gage of the cutting tool. The channel which is used solely for 35 reinforcing purposes is the one indicated at the left in Fig. 2 and consists of an intermediate portion 2 and top and bottom angularly extending legs 3 and 4. The other channel is shown at the right in Fig. 2 and consists of an intermediate portion 5 with top 40 and bottom angular legs 6 and 7. This latter channel is in all respects like the other channel with the exception that the leg 6 is longer 45 than the leg 3 and overhangs a groove 8 formed in the upper surface of the straight edge so as to provide a flange which receives the grooved portion of the gage of a paper trimmer to guide the trimmer on the straight 50 edge.

It has been the usual practice to secure these channel members to the wood of the straight edge by screws which were inserted through the intermediate portions of the 55 channel, with the consequent disadvantage

that the screws worked loose, causing the cutting disk of the trimmer to frequently strike the heads of the screws, necessitating re-sharpening of the cutting disk. To overcome this difficulty as well as to provide an 60 arrangement whereby the channels may be more easily, quickly and cheaply applied, I have devised the following arrangement:

The channels are first placed upon the sides of the straight edge and the straight edge 65 channels laid in a groove on the upper surface of a table 9 with their upper faces downward, a metal filler strip 9' being placed on the table between the metal channels to support the intermediate portion of the straight 70 edge. The groove of the table has a fixed side 10 and an adjustable side 11 so that the straight edge and channels can be firmly clamped in the groove. The side 11 is adjusted to position against the side of the 75 straight edge by a series of screws 12 which are threaded in a rib 13 preferably formed integral with the table. The under surface of the table has a pair of V-shaped ribs 14 which are slidably mounted in correspond- 80 ingly shaped grooves in the stationary supports 15, and the table has a downwardly extending tongue 16 which may be connected to any suitable reciprocating mechanism (not shown) to reciprocate the table. Mounted in 85 suitable bearings 17 above the table is a shaft 18 which has a pair of beveled rolls 19 so positioned that as the table reciprocates the rolls will engage the lower legs 4 and 7 to bend the legs at an acute angle to the inter- 90 mediate portions 2 and 5 of the channels and force the legs into the wood. The bearings for the shaft 18 are mounted on a pivoted arm 20 and screws 21 threaded in fixed brackets 22 connected with a bridge piece 23 with their 95 lower ends having an unthreaded engagement with the bearings furnish means for adjusting the position of the rolls 19 with relation to the channel member and thus determine the degree to which the legs 4 and 7 are bent and 100 forced into the wood. There is also preferably employed another roll 25 with a straight periphery, this roll being mounted on a shaft 26 journaled in bearings 27 carried by arms 28, with screws 29 in blocks 30 to secure the proper adjustment. This roll pre- 105 cedes the rolls 19 and presses the straight edge and channel firmly to their seats on the table.

By this arrangement, a very simple, effec- 110

tive and economical method is employed for securing the metal channel to the sides of the straight edge, eliminating fastening devices such as screws which are inserted in the intermediate portions of the channel so that there will be no danger of the cutter of the tool which runs on the channel having the overhanging flange being dulled or nicked by contact with the heads of loose screws.

10 It may be desirable however to employ in connection with the metal channel which has the overhanging flange, additional fastening devices to connect the legs 6 and 7, such as rivets 24 as shown in Fig. 3, these rivets acting primarily to resist stress brought upon the overhanging flange 6 by the action of the cutting tool and also serving to maintain said overhanging flange 6 in correct position to receive the gage of the tool regardless of any shrinkage in the wood.

20 Having thus described my invention, I claim:

1. The combination in a straight edge for wall paper trimmers, of a non-metallic member provided with a longitudinal groove on its upper surface adjacent one side edge thereof, a channel-shaped metallic strip applied to said adjacent edge of said non-metallic member with the legs of said channel embracing the surfaces of said member, with the lower leg of said channel strip bent inwardly toward the other leg so as to imbed it in said member, and the upper leg arranged in parallel relation to the adjacent

surface of said member and extending part way over said groove. 35

2. The combination in a straight edge for wall paper trimmers, of a non-metallic member provided with a longitudinal groove on its upper surface adjacent one side edge thereof, a channel-shaped metallic strip applied to said adjacent edge of said non-metallic member with the legs of said channel embracing the surfaces of said member, with the lower leg of said channel strip bent inwardly toward the other leg so as to imbed it in said member, and the upper leg arranged in parallel relation to the adjacent surface of said member and extending part way over said groove, and connecting devices passing through the said non-metallic member and connecting said legs together. 40 45 50

3. In a straight edge, a non-metallic body member provided with a longitudinal groove on its upper surface adjacent one side edge thereof, a channel shaped metallic member applied to each of the sides of said non-metallic member with the legs of the channel closely embracing the surfaces of the straight edge, the upper leg of one of the channels extending part way over said groove, the under leg of each channel being bent inwardly toward the other leg to imbed the same in the material of the straight edge. 55 60

In testimony whereof, I have hereunto set my hand this 12th day of August, 1927. 65

CHARLES E. GALVIN.