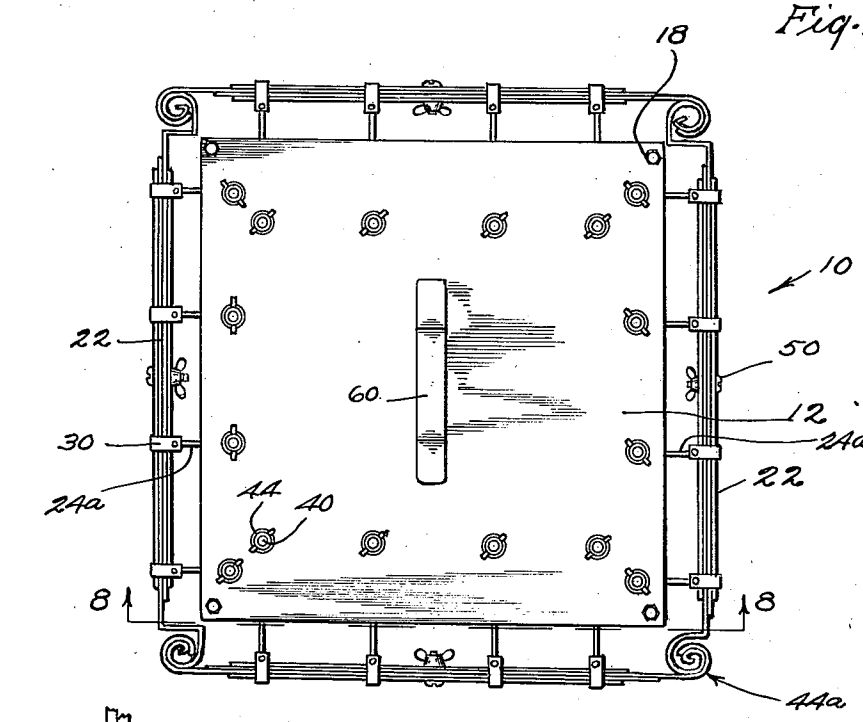
June 9, 1942. A. D. HUMAN 2,285,582

ADJUSTABLE CUSHION SEAT TEMPLATE

Filed Aug. 26, 1940 3 Sheets-Sheet 1

Fig. 1



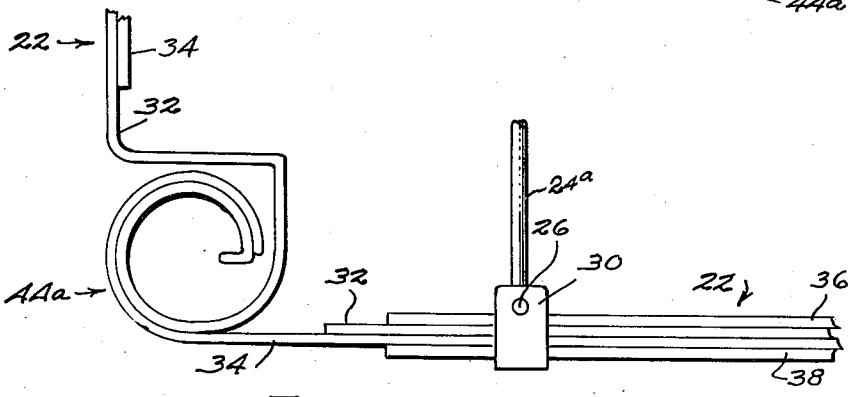


Fig. 2

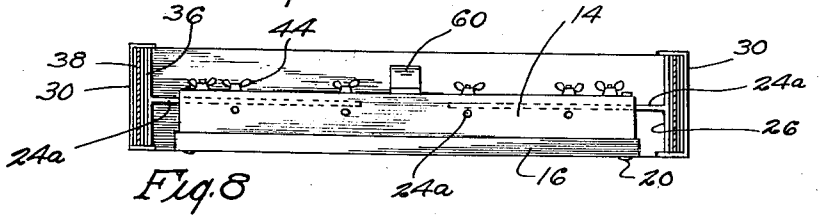


Fig. 8

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ADJUSTABLE CUSHION SEAT TEMPLATE

Filed Aug. 26, 1940 3 Sheets-Sheet 2

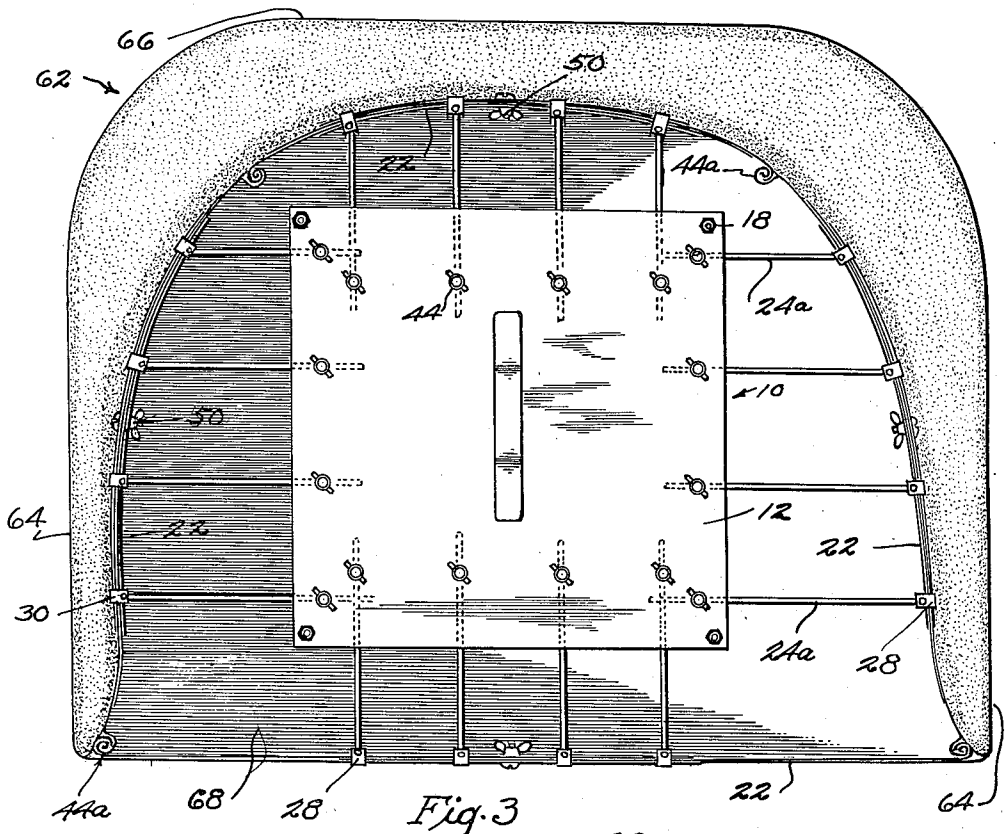


Fig. 3

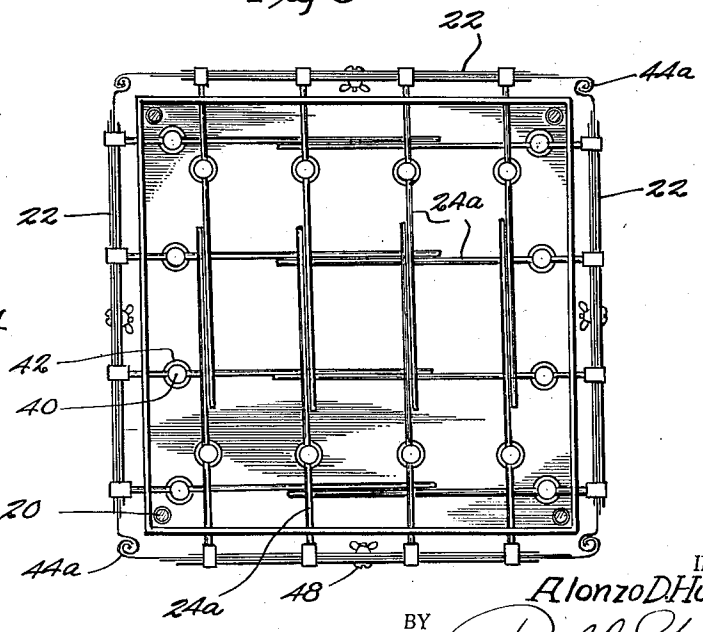


Fig. 4

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ADJUSTABLE CUSHION SEAT TEMPLATE

Filed Aug. 26, 1940 3 Sheets-Sheet 3

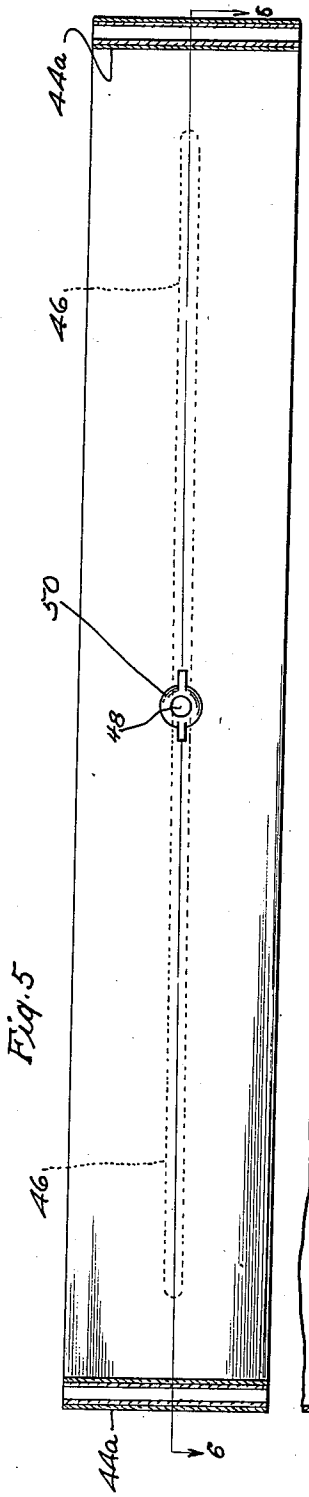


Fig. 5

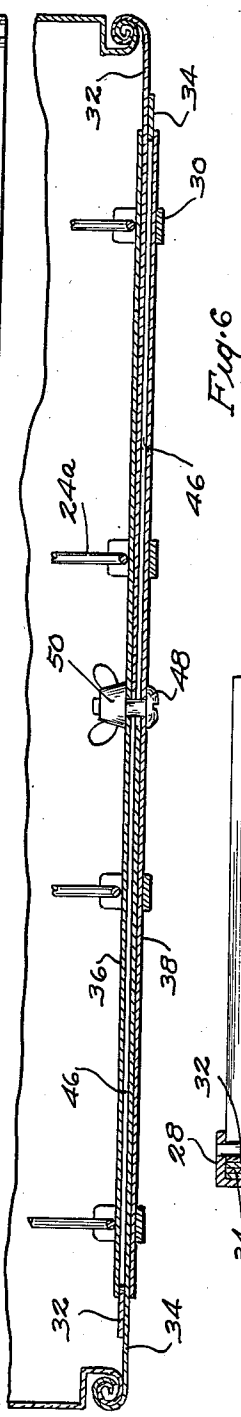


Fig. 6

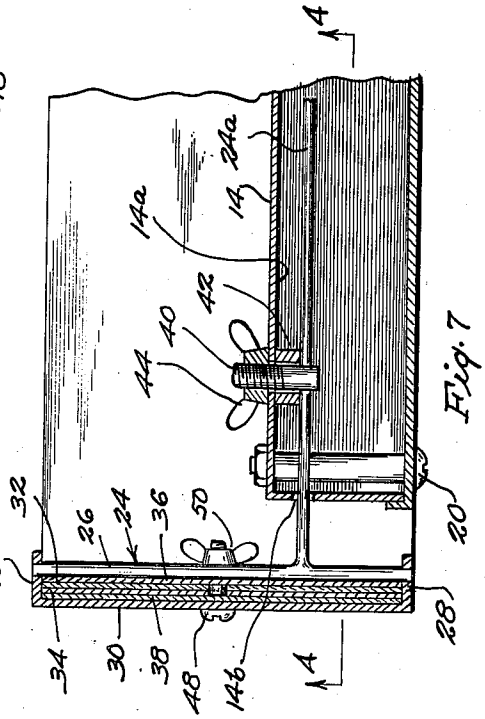


Fig. 7

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Patented June 9, 1942

2,285,582

UNITED STATES PATENT OFFICE

2,285,582

ADJUSTABLE CUSHION SEAT TEMPLATE

Alonzo D. Human, San Bernardino, Calif.

Application August 26, 1940, Serial No. 355,466

5 Claims. (Cl. 33—176)

The cushion template of this invention is an improvement upon my co-pending application for Letters Patent, entitled "Adjustable cushion form," Serial Number 211,380, as filed June 2, 1938, and has among its objects:

First, the provision of means in general combination to facilitate expansion of the sides of the template and control thereof to the end that a more accurate pattern of a cushion top may be had than has heretofore been possible.

Second, an improved inter-locking template corner construction which permits of movement in excess of 180 degrees without possibility of disengagement.

Third, an improved means to control and apply pressure to the flexible sides of the template whereby greater conformity with the contour of the seat may be had.

Fourth, an improved means to lock the template sides in any given contour whereby the pattern obtained may be more accurately transferred to the material to be worked upon.

Fifth, an improved construction in the template side-members which permits longitudinal movement thereof to meet a varied number of size requirements, and in relation thereto, means to lock the expansible side-members in any given functional position.

Sixth, the provision of means in co-operation with the fifth object, to guard, shield, and guide the expansible side-members through their range of movement.

Other objects of the invention may be observed from the accompanying drawing, the specification, and the appended claims.

In the drawing of which there are three sheets:

Figure 1 is a plan view of the cushion template of this invention, the flexible side-members being shown in a gauge which is of course disproportionate, being thus shown for the sake of clarity of detail.

Figure 2 is a plan view of the method of interlocking the side-members in their intersecting corners, this construction permits great freedom of movement to meet contour requirements.

Figure 3 is a plan view of a chair and shows application of the template in gauging the dimensional requirements thereof as a first step preparatory to building a new cushion.

Figure 4 is a view of the uncovered bottom of the body of the template showing construction in general and particularly showing the means employed to lock the expansible sides in any given position, the view is analogous to that taken along line 4—4, in Figure 6.

Figure 5 is a side-view of the template, showing the expansible sides in elevation and cutting through the interlocking corners, the view is primarily designed to show the position of a slot formed in each of the over-lapping side members to enable longitudinal movement thereof.

Figure 6 is a sectional view in plan, being taken on line 6—6, in Figure 5.

Figure 7 is a detail in section showing the longitudinally movable side-members and their support and relation to the body of the template, including means to lock the side-members in any given position.

Figure 8 is a side-elevation taken on line 8—8 in Figure 1 intended to show the relation of the body of the template to the flexible side-members thereof.

The template 10 of this invention comprises a rectangular housing 12 which is formed as a closed box having a top portion 14 and a lower portion 16 which are detachably held together by means of bolts 18. Spacers 20 are adapted to hold the top and bottom portions in uniformly spaced relation.

The template is provided with expansible sides 22 which lie upon each of the four sides of the housing 12, and as shown in the drawing, particularly in Figure 7, are held in adjustable relation thereto by means of T shaped pins 24, the cross-bar 26 of which is swivelly positioned in the over-hanging portion 28 of clips 30 which encase the whole of the side-members 22, that is, the slidable members 32 and 34 thereof and the guides or shields 36 and 38 positioned upon each of the sides of the housing.

The leg 24*a* of the pins 24 extend parallel with the top of the housing 12 and enter the sides thereof at right-angles as shown in the several figures of the drawing and are held in lateral adjustment by means of a bolt 40 which is apertured to receive the leg 24*a*. A washer or spacer 42 encircles the bolt 40 and lies between the leg 24*a* and the under-surface 14*a* of the top portion of the housing, while a wing-nut 44 is adapted to draw the bolt 40 and leg 24*a* upwardly against the spacer whereby the leg 24*a* may be definitely and positively held in releasable locked position.

The side-members 22 at each of the corners of the housing are joined in a universal joint 44*a* which is formed by bending the ends of the slidable side-members 32 and 34 substantially into circles of different radii whereby the one may snugly nest within the other, thereby enabling a rotational movement which is complete within

the duty imposed, yet retaining the virtue of simplicity of construction and of assembly.

Attention is again directed to the drawing, and especially Figures 5 to 7 where it will be noted that the side-members **32** and **34** are each formed with a slot **46** which terminates in its one end adjacent the centrally positioned bolt **48**, while the opposite ends of the slots terminate adjacent the free ends of the members **32** and **34**. A wing-cut **50** upon the bolt **48** is adapted to hold the side-members in any given position by compression of the shields **36** and **38** which extend parallel with the members **32** and **34** and form covers for the free ends of the members **32** and **34** in their movement to and from different expansible positions. In completion of detail covering my preferred mode of construction reference is made to the handle or hand-grip **60** which provides a convenient means to move the template from one position to another either for functional use or otherwise as the case may be.

In the following description of operation or use, reference is made to Figure 3, for here is illustrated an application of the template to a chair **62** which is shown in plan view, and in which **64** indicates the sides thereof, while **66** and **68** indicate the back and seat portion respectively.

Usually the template when not in use has the form shown in Figure 1 or possibly the contour of the seat upon which it was last used, however, when readying the template for use the wing-nuts **44** are each loosened and after approximately centering the body **12** of the template upon the seat or support thereof **68**, and also after loosening the wing-nuts **50**, the side-members **22** are pulled laterally so that the legs **24***a* of pins **24** slide through the bolts **40**, and concurrently the members **32** and **34** are moved divergently until the side-members **22** are brought into abutment with the interior contour of the chair.

During the aforementioned operation the universal joints **44***a* swing around their axes in a degree which permits the side-members to conform with any contour requirement likely to be found in standard upholstery work. After fitting the template to the contour of the inner parts of the chair, the front edge of the template is aligned with the front edge of the support **68** for the cushion. After making certain that the side-members are in snug contact with the contour to be duplicated, the nuts **50** and **44** are tightened so that tension of the sheet metal side-members cannot draw the members **22** from their set position. It is to be noted that since the side-members **22** along three of the sides of the template are curved in varying degrees that the clips **30** likewise assume varying degrees of inclination toward the body portion **12**, this is due of course to the fact that the clips snugly engage and grip the members **22** across their section, and because of the pivotal relation between each of the clips **30** and the cross-bar **26** of the pin **24**. The apertures **14***b* in the sides of the portion **14** of the body **12** not only enable the pins **24** to be moved inwardly and outwardly with respect thereto to adjust themselves to meet necessary conditions of template expansion, but the sides of the apertures form fulcrum points which keep the pins **24** in correct alignment, that is, the pins **24** are always held in a position at right angles to the body **12**, the hinged relation between the clip and pin being adapted to provide necessary flexibility in warping the side-members **22** to meet contour requirements.

The foregoing statement is illustrative of use to obtain the pattern for a single cushion. If a divan is to be recushioned, the template may be set as above described for the cushion on one of the sides, thereafter it is only necessary to reversely lay the template to obtain the pattern for the cushion upon the opposite side of the divan. The middle cushion, if there are three cushions, is then measured by adjusting the released sides to the cushions' dimensions and then tightening the sides in the position to which they have been newly adjusted, the procedure being identical with that taken as to the end cushion in the first instance.

Use of the device of this invention enables an upholsterer to more accurately duplicate existing cushion patterns than has heretofore been possible, and at the same time saves much time and material, for as to the latter item, one slip based upon a wrong guess, and guessing has largely been the method heretofore used, will cause the loss of a considerable amount of expensive fabric.

The preceding statement covers my preferred construction for an adjustable cushion seat template, however, it may be stated that various changes and modifications thereof may be effected in practicing the invention in departure from the drawing and description as given, without however, departing from the true spirit of the invention as defined by the scope of the appended claims.

Various changes may be made in the details of the construction without departing from the spirit or scope of the invention as defined by the appended claims.

I claim:

1. In a cushion template having a central body portion and having a band upon each of the sides thereof and in hinged end relation so that the body portion is enclosed within the said bands, each of said bands including two members in relatively fixed relation to and adjacent the side of the body, a bolt to clamp the members of the band together, there being one bolt to each of the respective bands, and other band members, said last mentioned band members being positioned between the first stated members and being formed with a longitudinally disposed slot to receive said bolt whereby the last mentioned band members may be moved laterally of the bolt for template purposes, and means to support said bands with respect to said body portion, said means comprising brackets adapted to encompass the bands across their section and pins, said pins being laterally adjustable with respect to said body portion and being in pivotal relation to said brackets.

2. In a cushion template having a central body portion and having a band upon each of the sides thereof and in hinged end relation so that the body portion is enclosed within the said bands, each of said bands comprising two members in relatively fixed relation to and adjacent the side of the body. Bolts to clamp the members of the bands together, and other band members, said last mentioned band members being positioned between the first stated members and being formed with a longitudinally disposed slot to receive said bolt whereby the last mentioned band members may be moved laterally of the bolt for template adjustability purposes, and means to support said bands with respect to said body portion, said means comprising brackets having laterally bent top and bottom end portions, substantially T shaped pins, the vertical

portion of said pins being pivotally positioned within apertures formed in said laterally bent bracket portions, the horizontal portion of said pins being releasably secured in the body portion of the template whereby the bands may be moved laterally to conform with the configuration of a preformed pattern.

3. In a cushion template having a body portion and having a band upon each of the sides thereof in end relation so that the body portion is enclosed within the said bands, each of said bands including two members in relatively fixed relation to and adjacent the side of the body, a bolt to clamp the members of the band together, and other band members, said last mentioned band members being positioned between the first stated members and being formed with a longitudinally disposed slot to receive said bolt whereby the last mentioned band members may be controllably moved laterally of the bolt for template adjustability purposes, the free ends of each of said last mentioned bands having end portions of substantially semi-circular section and being so nested together as to form a hinged connection, and means to support said bands with respect to said body portion, said means comprising brackets having laterally bent top and bottom end portions, substantially T shaped pins, one portion of said pins being pivotally positioned within apertures formed in said laterally bent bracket portions, and another portion of said pins being releasably secured in the body portion of the template whereby the bands may be moved laterally to conform with the configuration of a pre-formed pattern.

4. An adjustable cushion template comprising in combination, a body portion, a plural number of flexible bands extending around the body portion and in adjustable relation thereto, each of said adjustable bands having an end portion of substantially semi-circular section and being joined to the next adjacent adjustable band in nested relation to form a hinged joint, said adjustable bands being slotted intermediate of its free end and its hinged connection with others of said bands, and screw means within said slots whereby the bands may be tightened or loosened to permit of longitudinal adjustment.

5. An adjustable cushion template comprising in combination, a body portion, a plural number of flexible bands extending around the body portion, certain of said bands being longitudinally adjustable with respect to other associated bands to increase and decrease the length thereof, each of said adjustable bands having an end portion of curled section and being nested with a like configuration in the next adjacent one of said adjustable bands to form a hinged joint, the adjustable bands being provided with a slot intermediate of its free end and hinged portion, and a screw within said slots whereby complementary bands may be tightened or loosened to be controllably extended to conform with a cushion edge contour.

ALONZO D. HUMAN.