No. 737,918. PATENTED SEPT. 1, 1903.

A. FRESCHL.

PLAITING ATTACHMENT FOR TUFTING BOARDS.

APPLICATION FILED MAR. 16, 1903.

NO MODEL.

Fig. 1.

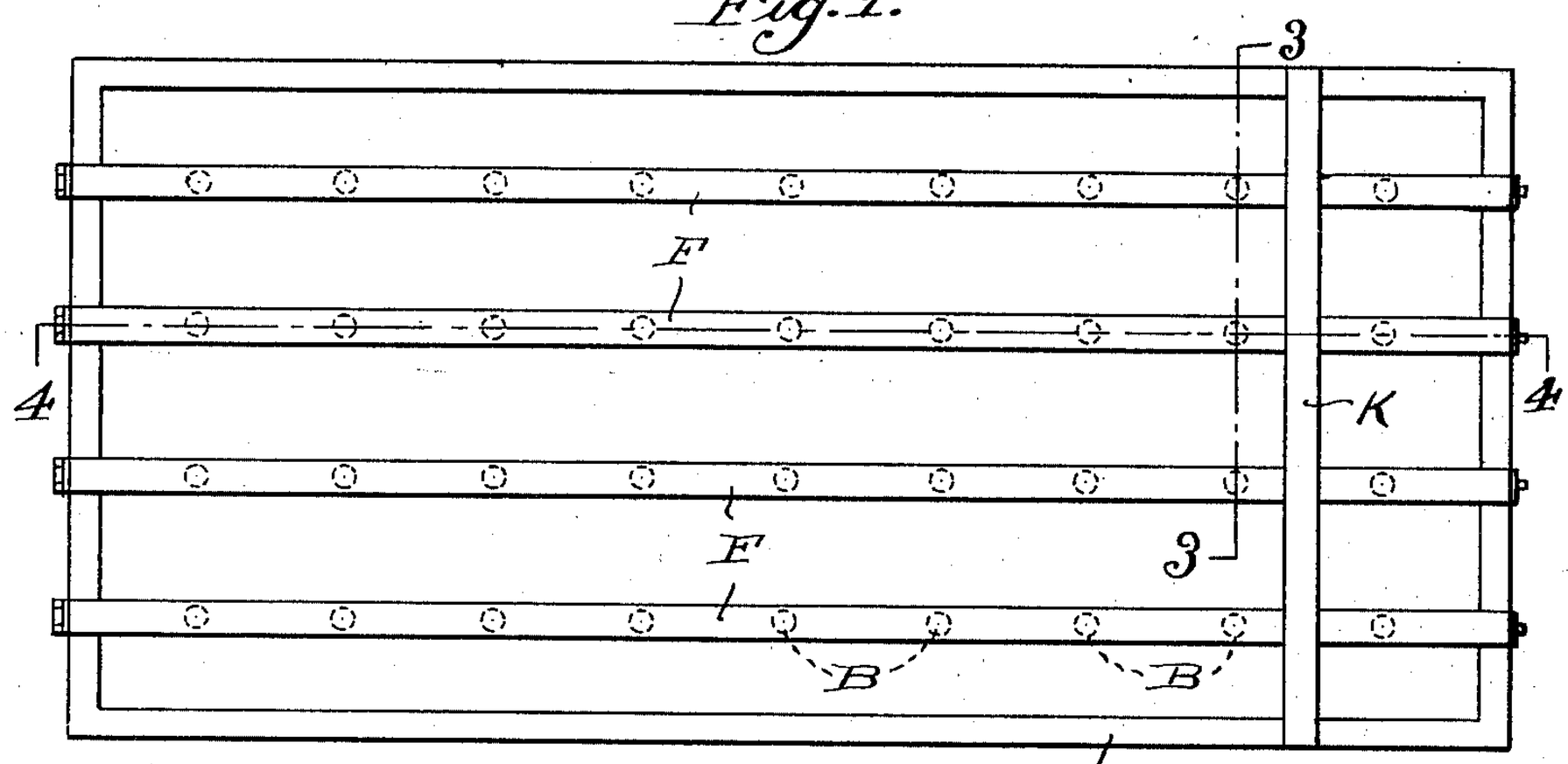


Fig. 2.

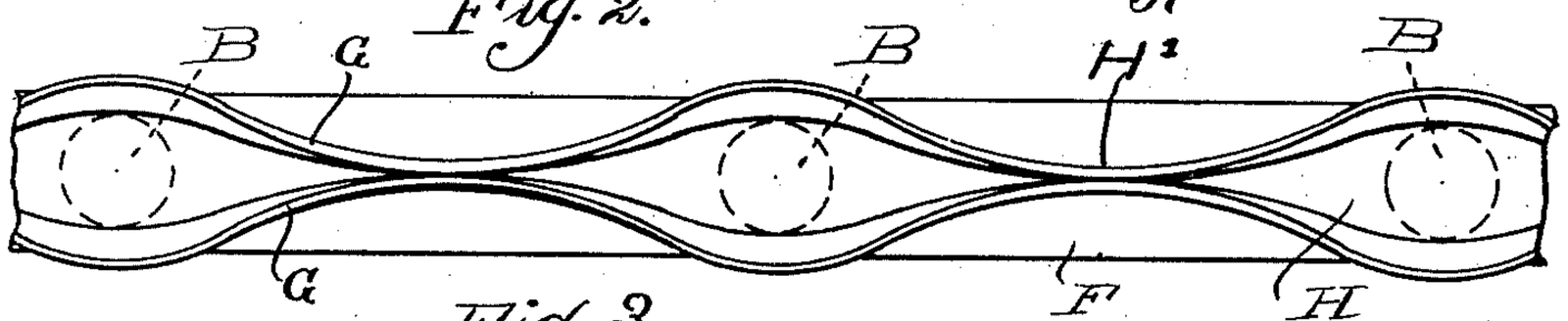


Fig. 3.

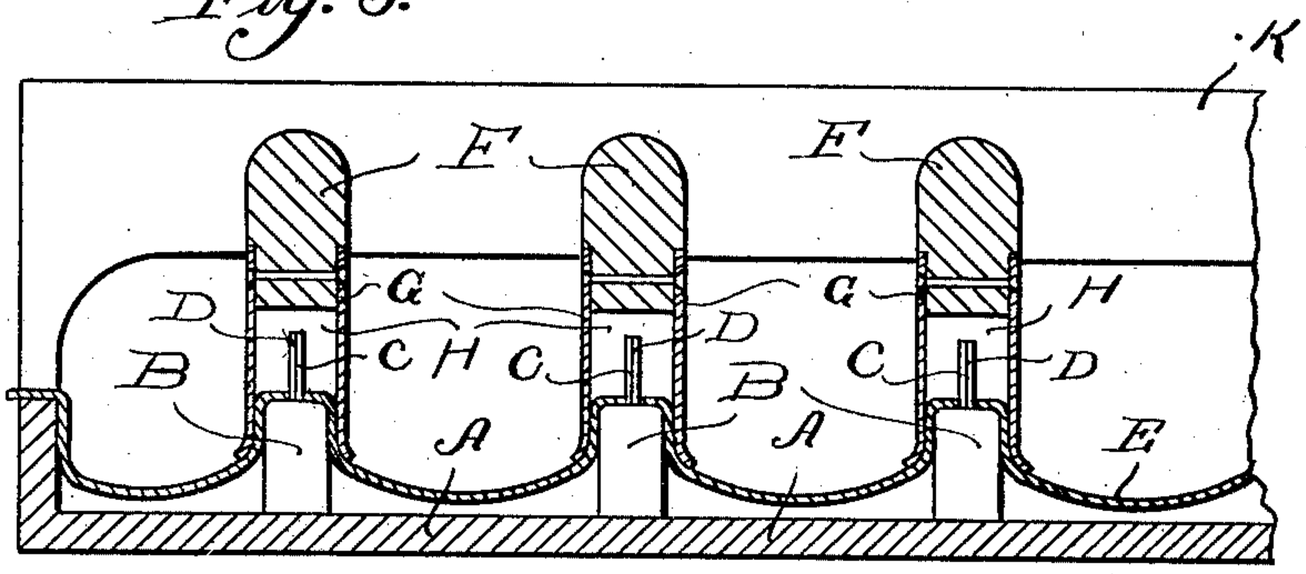


Fig. 4.

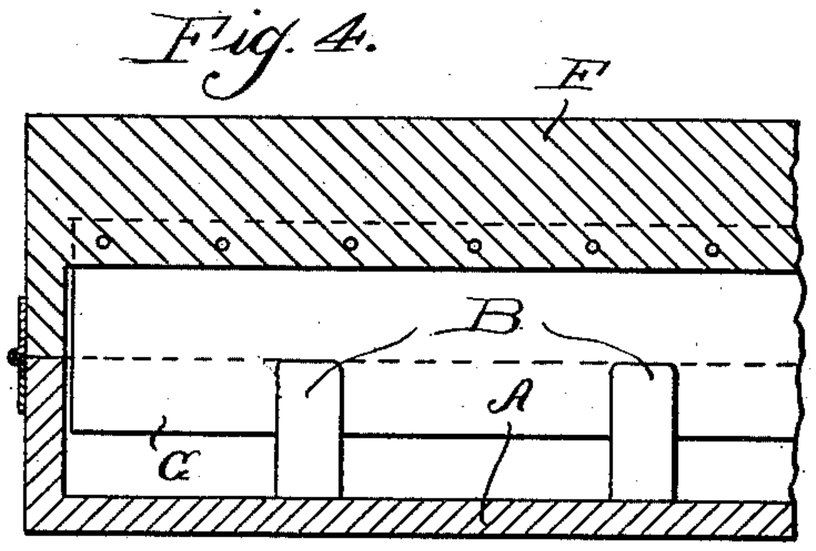
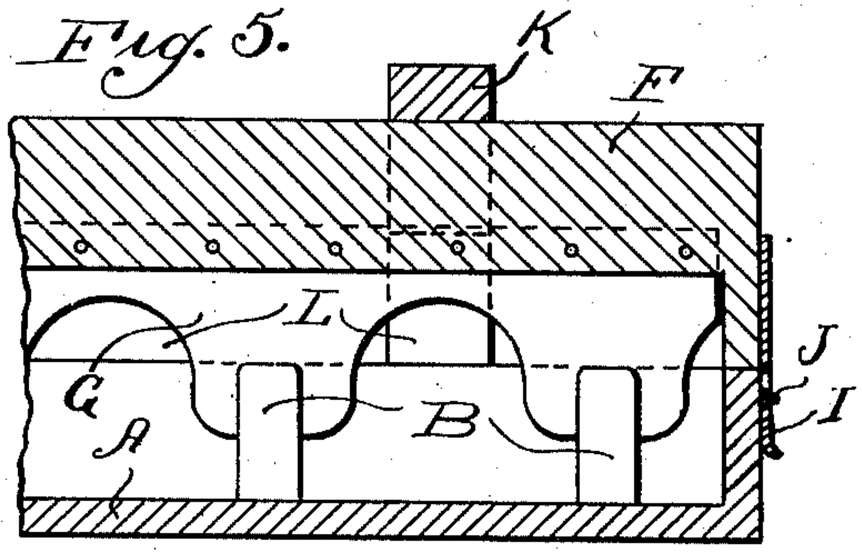


Fig. 5.



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No. 737,918. Patented September 1, 1903.

UNITED STATES PATENT OFFICE.

ALFRED FRESCHL, OF CHICAGO, ILLINOIS.

PLAITING ATTACHMENT FOR TUFTING-BOARDS.

SPECIFICATION forming part of Letters Patent No. 737,918, dated September 1, 1903.

Application filed March 16, 1903. Serial No. 148,089. (No model.)

To all whom it may concern:

Be it known that I, ALFRED FRESCHL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Plaiting Attachments for Tufting-Boards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My iinventon relates to a novel construction in a plaiting attachment for upholsterers' tufting-boards, the object being to provide a simple and efficient device of this character; and it consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a top plan view of a tufting-board provided with a plaiting attachment constructed in accordance with my invention. Fig. 2 is a fragmentary bottom plan view of one of the bars of my plaiting attachment. Fig. 3 is a section on the line 3 3 of Fig. 1, on an enlarged scale. Fig. 4 is a fragmentary detail section on the line 4 4 of Fig. 1 on an enlarged scale. Fig. 5 is a section similar to Fig. 4, showing a modified form of construction.

In said drawings, A indicates a tufting-board at regular intervals with button-holders B, in which the heads of the buttons C are held, the shanks D thereof projecting upwardly. In using said tufting-board the buttons are first placed in the holders and then the previously-marked covering E of the cushion is inserted over the shanks D, which pass through said covering E at the predetermined points. In order to form the tufts, considerable slack is left in said covering E to receive the filling, and this slack must be properly held to form plaits between the tufts. Numerous devices are used for this purpose; but all of same are rather difficult to handle and are not adapted for cheap work, as they require too much labor in adjustment and subsequent care in inserting the filling. My present device is designed to overcome these difficulties, and to this end I provide parallel bars F, preferably of wood, which are of a length sufficient to span the tufting-board A and extend over each row of button-holders B. To each side of each bar F, I secure a steel plate G, the edge of which is turned slightly outward to provide a flaring mouth for the inverted channel H thus formed. The depth of said channel H is such that when the free edges of said plates G are inserted in position over the button-holders there will still be sufficient free space to receive the shanks D of the buttons. The said plates G are pinched together at regular intervals, as indicated at H', thereby becoming convergent between the button-holders, said pinched or convergent portions H' serving to provide plenty of room for the insertion of filling to completely fill each tuft. The said plates G serve the purpose of forcing the covering E over the upper ends of the button-holders B and in close contact therewith, thereby forming the desired depressions to receive the filling. Each of said bars F is preferably hinged at one end to one end of the tufting-board, said hinge serving the double purpose of determining the position of the bar and to hold the same against becoming loosened by lateral pressure, which is frequently inadvertently applied by the operator in introducing the filling. To further hold said bars in position, the free ends of same may be provided with suitable latches I, engaging hooks J on the tufting-board, and to provide absolutely against displacement by lateral pressure I provide removable cross-bars K, which are provided at regular intervals with recesses to receive said bars F and laterally connect all of the latter.

As shown in Fig. 5, the plates G instead of being pinched together at intervals may be retained parallel and be cut out between the button-holders, as at L, thereby providing room for the insertion of filling underneath the bar. This, however, involves considerable labor, and hence I prefer the construction shown in Figs. 1 to 4, inclusive. The flaring elliptical recesses receiving the button-holders are sufficiently long to readily receive the entire row of button-holders even though the latter be not very accurately spaced, and

the contracted portions leave room for the filling without rendering special spreading of the latter necessary.

I claim as my invention—

1. The combination with a tufting-board, of bars corresponding in number with the rows of button-holders and each adapted to span one row, and plates secured to opposite sides of each bar and forming pockets at intervals adapted to receive the button-holders.

2. In a tufting-board, the combination with a row of button-holders, of a bar provided on its lower face with devices to receive said button-holders and fold the cushion-covering over same, and means at intervals between the points of admission of said button-holders to permit insertion of filling under said bar.

3. In a tufting-board, the combination with a row of button-holders, of a bar adapted to span said row, flanges on the lower face of said bar adapted to receive said button-holders between the same, said flanges being so formed between the points of admission of said button-holders as to permit insertion of filling underneath said bar.

4. In a tufting-board, the combination with a row of button-holders, of a bar spanning said row, and flanges on the lower edges of said bar adapted to receive said button-holders between the same, the free edges of said flanges being flared.

5. In a tufting-board, the combination with a row of button-holders, of a bar spanning said row, and flanges on the lower edges of said bar adapted to receive said button-holders between the same, said flanges being pinched together between the points of admission of said button-holders.

6. In a tufting-board, the combination with a row of button-holders, of a bar spanning said row, and flanges on the lower edges of said bar pinched together at intervals, the open spaces between the said pinched portions forming flaring pockets to receive said button-holders.

7. In a tufting-machine, the combination with a row of button-holders, of a member spanning the entire row and provided with downwardly-extending flanges, the free edges of said flanges being pinched together at intervals and forming pockets between the pinched portions to receive said button-holders, the free edges of said flanges being flared outwardly to form flaring mouths on said pockets.

8. In a tufting-board, the combination with a row of button-holders, of a bar hinged at one end to said tufting-board and spanning all of said button-holders, downwardly-extending flanges on the lower edges of said bar, the free edges of said flanges being pinched together at intervals, thereby forming pockets between said pinched portions to receive said button-holders, and means for holding said bar down upon said button-holders.

9. In a tufting-board, the combination with a row of button-holders, of a bar hinged at one end to said tufting-board and spanning all of said button-holders, downwardly-extending flanges on the lower edges of said bar adapted to receive said button-holders between the same and pinched together between the points of admission of said button-holders, and a latch engaging the other end of said bar to hold same down upon said button-holders.

10. In a tufting-board, the combination with a plurality of rows of button-holders, of bars corresponding in number with said rows of button-holders and each adapted to span a row, downwardly-extending flanges on the lower edges of said bars adapted to receive the button-holders between the same, and a lateral member engaging all of said bars and adapted to hold same against displacement by lateral pressure.

11. In a tufting-board, the combination with a plurality of rows of button-holders, of bars corresponding in number with said rows of button-holders and each adapted to span a row, downwardly-extending flanges on the lower edges of said bars adapted to receive the button-holders between the same and pinched together between the points of admission of said button-holders, and a lateral member engaging all of said bars and adapted to hold same against displacement by lateral pressure.

12. In a tufting-board, the combination with a plurality of rows of button-holders, of a plurality of bars hinged at one end to said tufting-board and spanning said rows of button-holders, downwardly-extending flanges on said bars adapted to receive said button-holders between the same, latches engaging the free ends of said bars to hold same down upon said button-holders, and a lateral member engaging all of said bars and adapted to hold same against displacement by lateral pressure.

In testimony whereof I affix my signature in presence of two witnesses.

ALFRED FRESCHL.

Witnesses:

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