

No. 859,828.

PATENTED JULY 9, 1907.

S. N. McCLOUD.
CHAIR SEAT.

APPLICATION FILED MAY 26, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

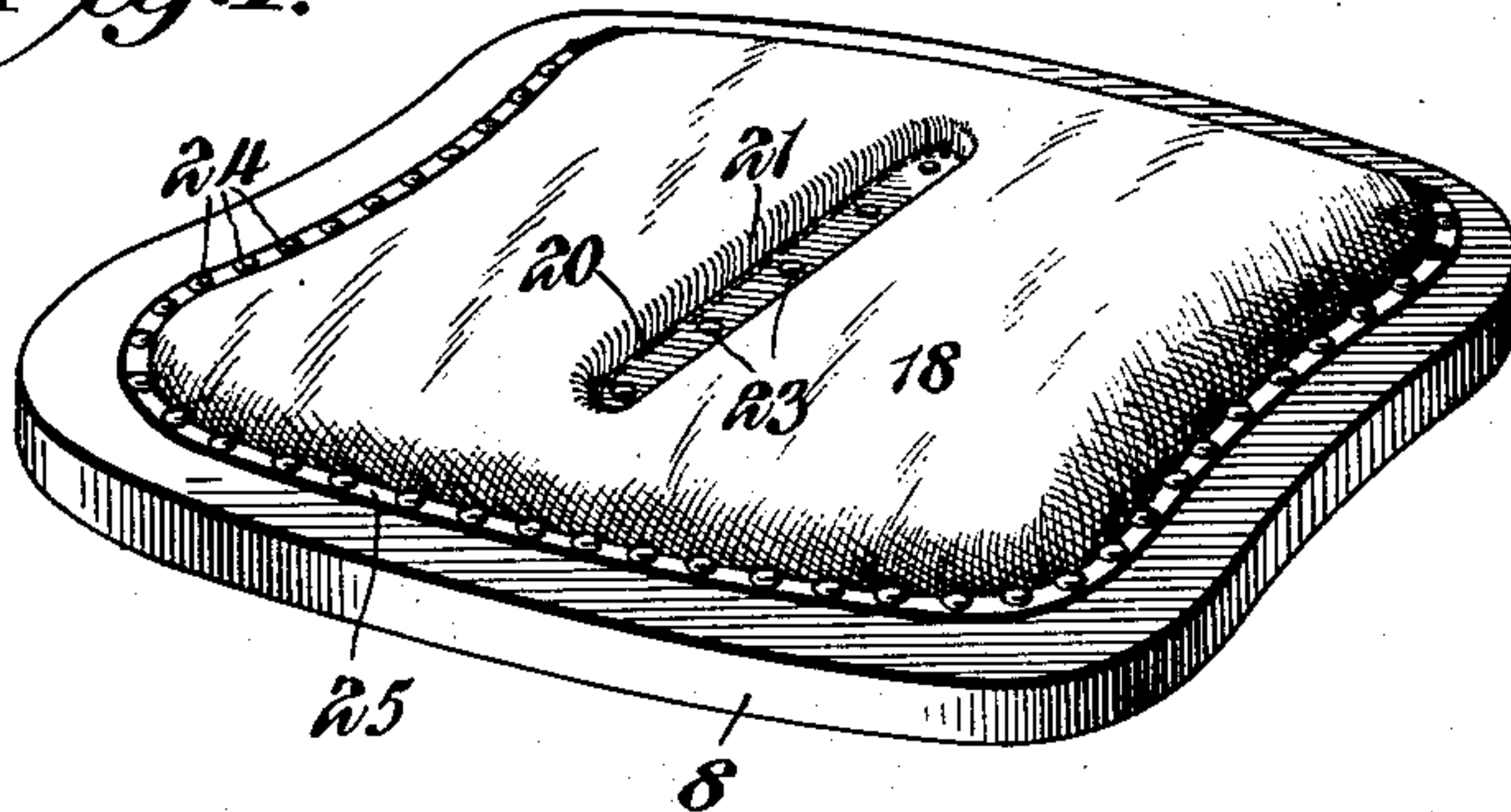


Fig. 2.

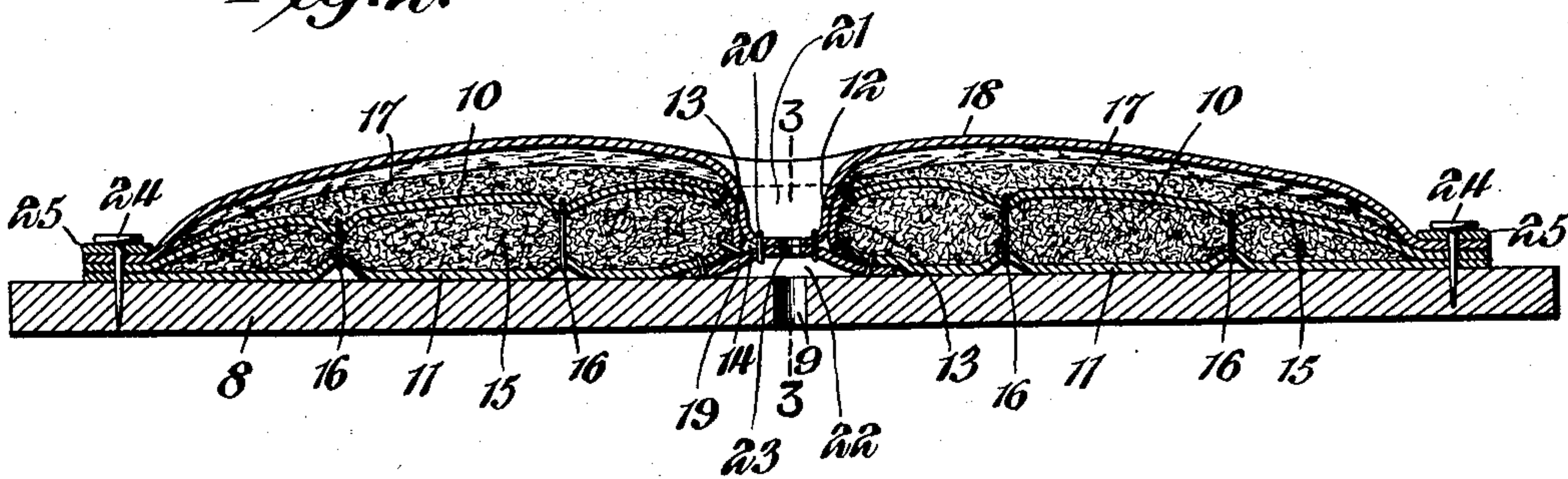


Fig. 3.

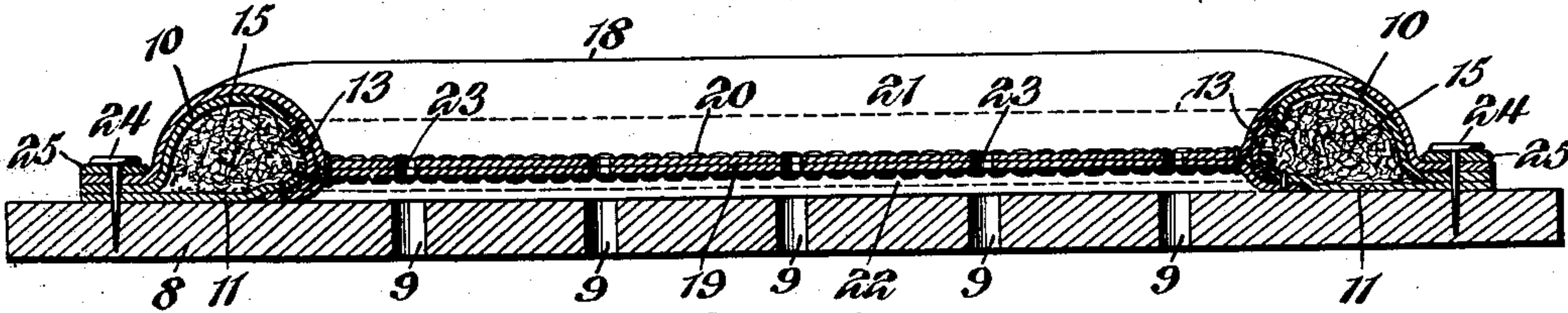
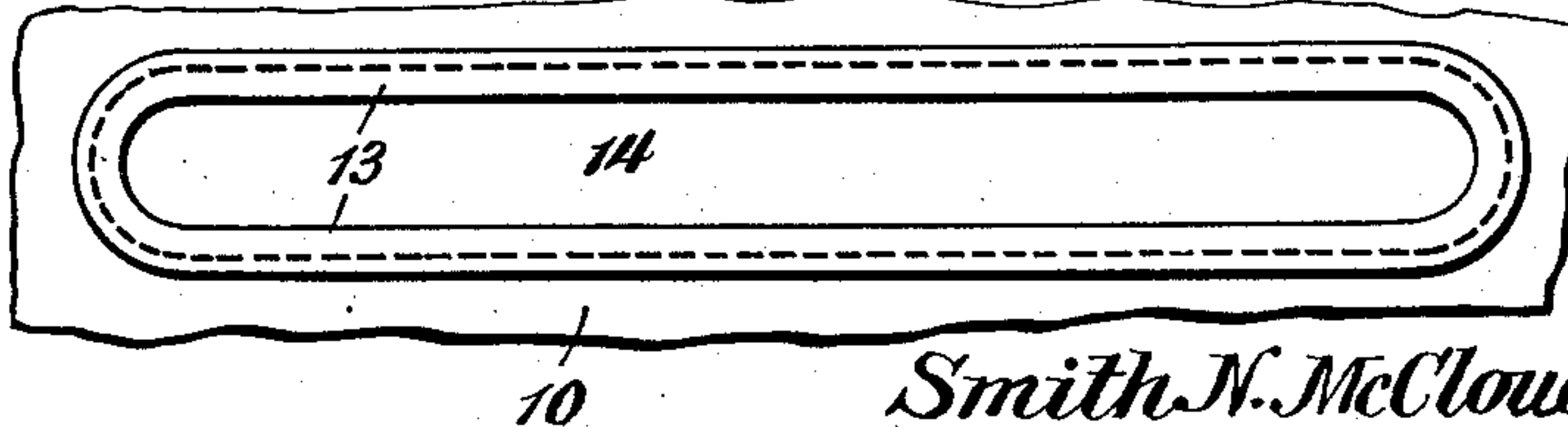


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

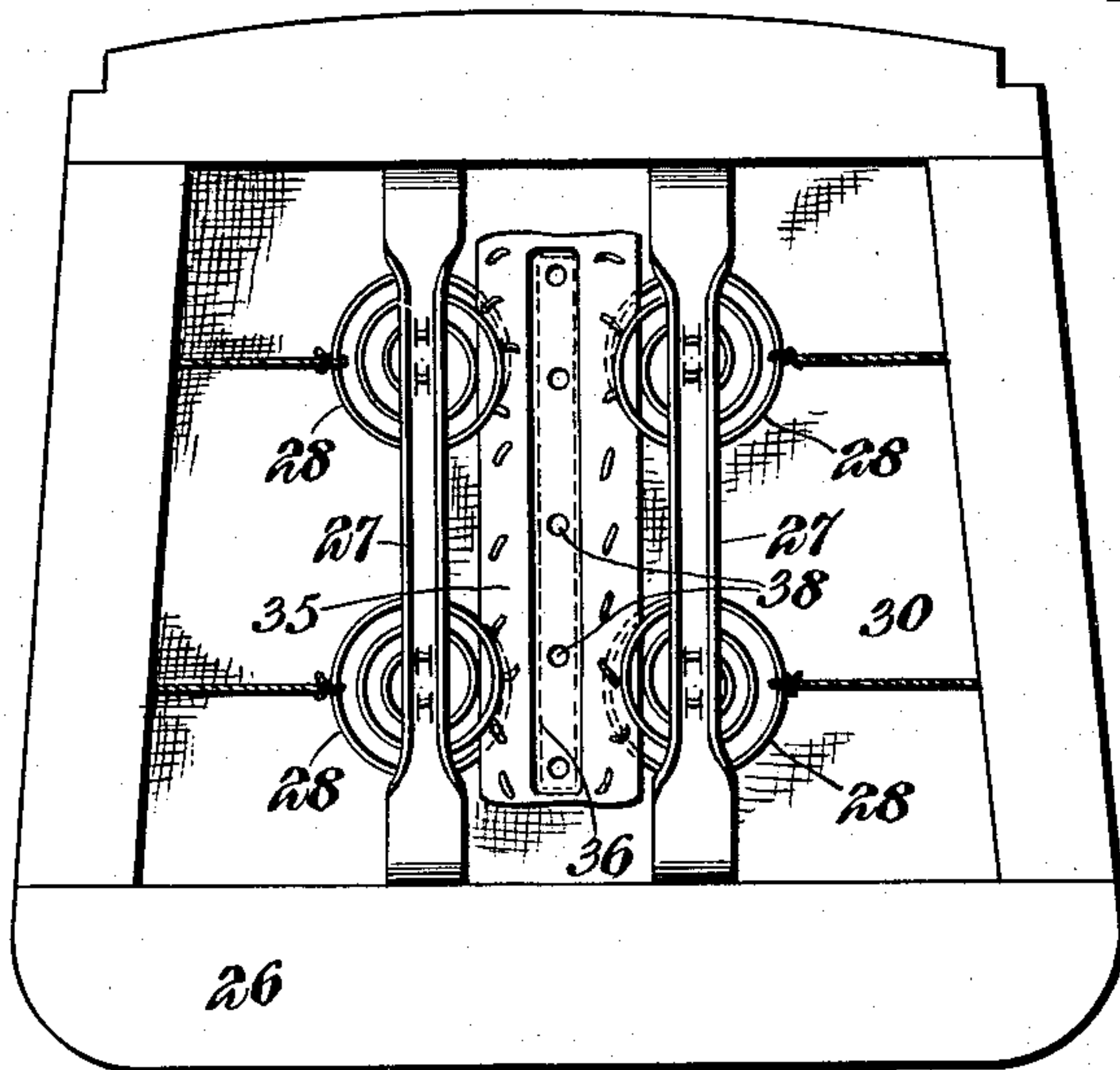


Fig. 6.

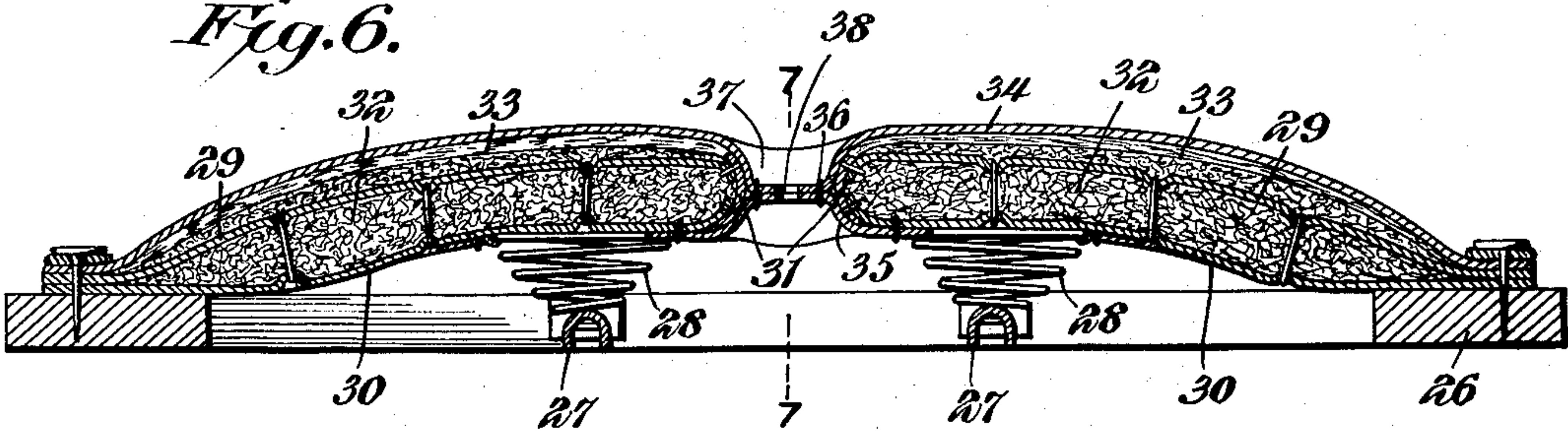
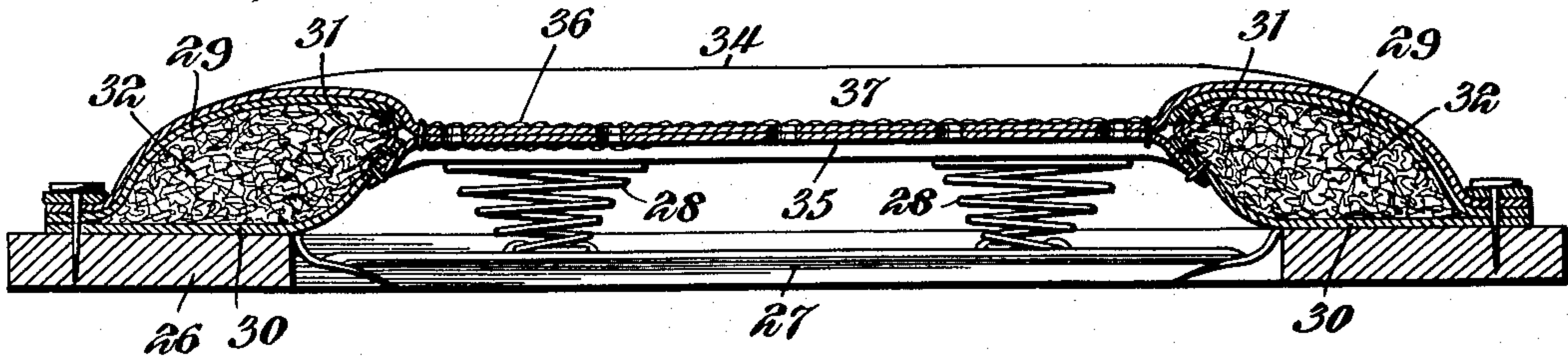


Fig. 7.



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SMITH N. McCLOUD, OF MARYSVILLE, OHIO, ASSIGNOR TO THE DAVIS CHAIR CO., OF MARYSVILLE, OHIO.

CHAIR-SEAT.

No. 859,828.

Specification of Letters Patent.

Patented July 9, 1907.

Application filed May 26, 1906. Serial No. 318,916.

To all whom it may concern:

Be it known that I, SMITH N. McCLOUD, a citizen of the United States, residing at Marysville, in the county of Union and State of Ohio, have invented a new and useful Chair-Seat, of which the following is a specification.

The object of the present invention is to provide a novel form of hygienic chair seat having means that will permit the circulation of air therethrough so as to maintain the seat in comparatively cool and more healthful condition than the ordinary solid seat.

Two embodiments of the invention are disclosed in the accompanying drawings and described in the following specification, but it will be noted that the invention is not limited by the appended claims to the exact structures disclosed.

In the drawings:—Figure 1 is a perspective view of one embodiment of the invention. Fig. 2 is a cross sectional view therethrough. Fig. 3 is a sectional view on the line 3—3 of Fig. 2. Fig. 4 is a plan view of the central portion of the casing, illustrating the central opening therethrough. Fig. 5 is a bottom plan view of a modified form of structure. Fig. 6 is a cross sectional view therethrough. Fig. 7 is a sectional view on the line 7—7 of Fig. 6.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

Referring first to the structure disclosed in Figs. 1 to 4 inclusive, it will be observed that a support 8 is employed in the form of a flat base-board having one or more openings 9 through its central portion. Mounted on this base or support is a casing comprising a top wall 10, and a bottom wall 11. These walls have central elongated openings 12 therethrough. The margins of the top and bottom walls around the openings are connected by an inner wall 13. As a result, it will be noted that the casing is provided with a central elongated opening 14, located over and alined with the openings 9 in the base. The casing is filled with suitable cushioning material 15 that surrounds the central opening, said material being held against movement in the ordinary manner by ties 16 connecting the top and bottom walls. Cushioning material 17 is also located upon the top wall 10 of the cushion or casing, and covering this material and the casing is a facing sheet 18, which facing sheet extends directly across the central opening 14, and extends downwardly into the same. A backing sheet 19 is secured to the under side of the casing, and also extends across the central opening 14, being curved upwardly into the same, so that the portions of said backing sheet and facing sheet that extend across the opening are abutted, being fastened by lines of stitching 20, or by any other suitable means. As a result of this structure, it will

be observed that an elongated channel 21 is formed in the top of the seat, and a similar channel 22 is formed in the under side of the same. These channels are connected by alined openings 23 extending through the sheets. The seat is held in position on the base by any suitable means, as for instance, tacks or fasteners 24 extending through a binding strip 25 located over the margins of the facing sheet, said fasteners passing through the outer margins of the facing sheet of the top and bottom walls 10 and 11 of the casing into the base. By this arrangement, it will be observed that air can circulate freely through the central portion of the seat, maintaining the same in cool and healthful condition. At the same time, the structure of said seat is simple, and adds but little to the cost of manufacture.

A slightly modified form of the invention is illustrated in Figs. 5, 6 and 7. In this structure, the base or support comprises an open frame 26 bridged by a pair of ribs 27 or other supports, which may be of any suitable structure. These ribs constitute supports for springs 28. In other respects, the structure is substantially the same as that already described. A cushion is employed comprising top and bottom walls 29 and 30, having central openings, the margins around the openings being connected by an inner wall 31. Thus the casing has a central elongated opening. Cushioning material 32 is located in the casing, and other cushioning material 33 is arranged upon the same. Over the latter is placed a facing sheet 34 that extends across the central opening, and a backing sheet 35, secured to the under side of the cushion, also extends across the opening. These two sheets extend into said opening towards each other, and have the portions located therein secured together, as shown at 36. As a result, an upper channel 37 is formed in the seat, and this channel has communication with the under side of said seat through openings 38, formed through the abutted portions of the facing and backing sheets. It will be apparent that this form of construction has exactly the same advantages as those already described, and it will also be evident that the cushions can be manufactured and sold separately from the base or support, so that they may be applied to any suitable chair.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described my invention, what I

claim as new, and desire to secure by Letters Patent, is:—

1. A ventilated chair seat, comprising a cushion casing having an opening therethrough, cushion material located
5 in the casing around the opening, and a facing sheet covering the casing, said sheet extending across the opening in the casing and having an opening aligned therewith.
2. A ventilated chair seat, comprising a cushion casing having an intermediate elongated opening therethrough,
10 cushion material located within the casing around the opening, and a facing sheet covering the casing, said sheet extending downwardly into and across the opening in the casing, forming a channel, the portion of the sheet that crosses the opening having an opening therethrough.
3. A ventilated chair seat, comprising a cushion casing having an opening therethrough, and comprising an upper
15 and a lower wall, cushioning material located in the casing between said walls, a facing sheet covering the casing, said sheet extending across the opening in the casing, and a backing sheet located beneath the casing and extending
20 across the opening therethrough, said facing and backing sheets being secured together in said opening, the portions of the facing and backing sheets that extend across the opening having openings therethrough.
4. A ventilated chair seat, comprising a cushion comprising a casing having an intermediate elongated opening
25 therethrough, and cushioning material located in the casing around the opening, a facing sheet covering the casing, said sheet extending downwardly into and across the opening in the casing, forming a channel, a backing sheet located
30 beneath the casing and extending across the opening, the portions of said sheets that extend across the casing opening being disposed against each other and having aligned openings therethrough, and means connecting said
35 portions for holding them together.
5. In a ventilated chair seat, the combination with a cushion, comprising a top wall having an opening, a bottom wall having an opening, an inner wall connecting the margins of the top and bottom walls around the openings,
40 forming a casing having an intermediate opening therethrough, and cushioning material located in the casing around the opening, of a facing sheet covering the cushion and extending downwardly into and across the casing opening, and means engaging the portion of the sheet that
45 extends across the casing opening to maintain the same down in said opening, said portion having an opening therethrough.
6. In a ventilated chair seat, the combination with a
50 support having an opening therethrough, of a cushion mounted on the support and comprising a casing having an

intermediate elongated opening therethrough that is aligned with the support opening, and cushioning material located in the casing around the opening, a facing sheet covering the cushion and the opening therethrough and extending
55 downwardly into the said opening, forming a channel in the upper portion of the sheet, a backing sheet located beneath the cushion and extending across the opening therethrough, means for securing the cushion and facing sheet to the support, and means connecting the portions of the facing and backing sheets that extend across the cushion
60 opening, said portions having openings therethrough.

7. A ventilated chair seat, comprising an open frame, springs mounted on the frame, a cushion comprising a casing secured to the frame and having its intermediate portion supported by the springs, said cushion casing having
65 an opening therethrough, and cushioning material located within the casing and a facing sheet covering the cushion, said sheet extending across the opening therein and having an opening aligned therewith.

8. A ventilated chair seat, comprising an open frame, supporting bars extending across the space within the
70 frame, springs mounted on the bars, a cushion casing having its margins secured to the frame and supported by the springs, said casing having an elongated intermediate opening therethrough, cushioning material located within the casing a facing sheet covering the casing, said sheet extending
75 downwardly into and across the opening therein, forming a channel, a backing sheet secured to the under side of the casing and also extending across the opening, and means connecting the facing and backing sheets, said
80 means being located in the opening in the casing, the said sheets furthermore having openings arranged within the casing opening.

9. A ventilated cushioned chair seat comprising a cushion body having an elongated opening therethrough and a
85 sheet extending across the opening, said sheet being disposed above the lower face of the cushion body and below its upper face, forming upper and lower channels on its opposite sides and in the cushion body for the circulation of air, and said sheet furthermore having openings there-
90 through that constitute means of communication between said channels.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

SMITH N. McCLOUD.

Witnesses:

CHAS. F. McCLOUD,
NELLE G. HOOPES.