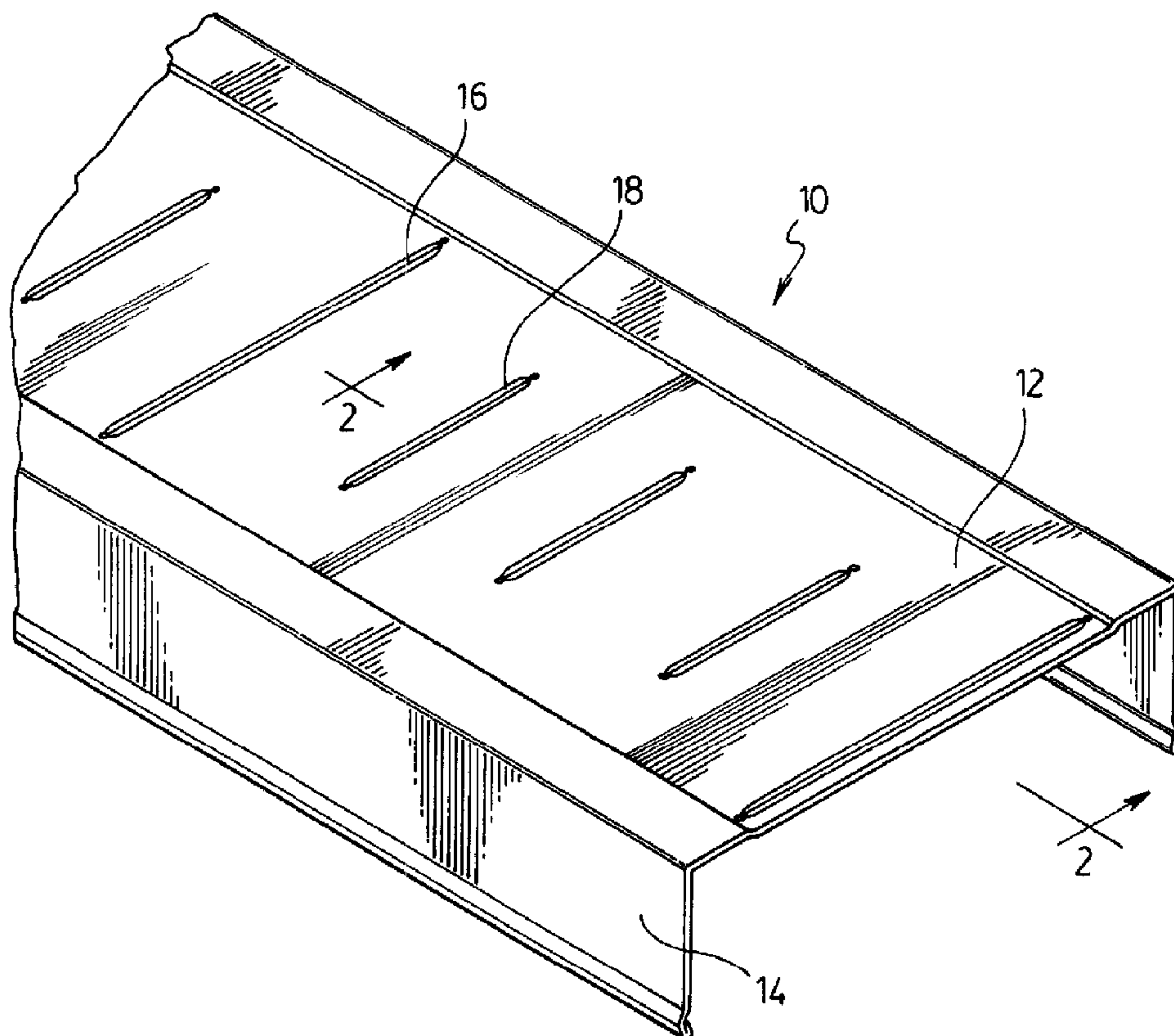




(22) Date de dépôt/Filing Date: 2005/03/02  
(41) Mise à la disp. pub./Open to Public Insp.: 2006/09/02

(51) Cl.Int./Int.Cl. *E04C 3/32* (2006.01),  
*E04B 2/82* (2006.01)  
(71) Demandeur/Applicant:  
BAILEY METAL PRODUCTS LIMITED, CA  
(72) Inventeur/Inventor:  
UNKNOWN, UNKNOWN  
(74) Agent: DENNISON ASSOCIATES

(54) Titre : COULISSES POUR MURS A POTEAUX METALLIQUES  
(54) Title: TRACK FOR METAL STUD WALLS



(57) Abrégé/Abstract:

The present invention provides for track for use in constructing metal stud walls. The track is a generally U-shaped channel having a base and upstanding side walls extending along either side of the base. The base is provided with a plurality of embossed indicator means evenly spaced along the length of the base. The spacing of the embossed indicator means provides a guide for the proper spacing of the studs placed in the base.

JJ-12 588CA

ABSTRACT OF THE DISCLOSURE

The present invention provides for track for use in constructing metal stud walls. The track is a generally U-shaped channel having a base and upstanding side walls extending along either side of the base. The base is provided with a plurality of embossed indicator means evenly spaced along the length of the base. The spacing of the embossed indicator means provides a guide for the proper spacing of the studs placed in the base.

JJ-12 588CA

TITLE: TRACK FOR METAL STUD WALLSFIELD OF THE INVENTION

5 The present invention is directed to track for use in metal stud walls and particularly to a track which increases the ease of installation of metal stud walls.

BACKGROUND OF THE INVENTION

10

Metal stud walls are commonly used, especially in commercial, institutional and industrial construction, because of their fire resistance and non-warping characteristics. Such stud walls generally have a bottom and top track attached to the floor and ceiling respectively and a plurality of spaced apart studs extending vertically between the tracks. In a typical installation, the studs are spaced 16 or 24 inches apart to accommodate the 4 foot widths of wall covering material such as drywall or other sheets. In order to make the installation of the studs easier, a number of tracks have been developed with one or more structures on the upstanding walls of the track that hold the studs in the track at the proper spacing. Examples of such structures are shown in U.S. patents 3,423,893 issued January 28, 1969 to Hyatt; 3,536,345 issued October 27, 1970 to Leifer; 3,680,271 issued August 1, 1972 to Satchell; 4,805,364 issued February 21, 1989 to Smolik; 4,809,476 issued March 7, 1989 to Satchell; 4,854,096 issued August 8, 1989 to Smolik; 5,222,335 issued June 29, 1993 to Petrecca; 5,325,651 issued July 5, 1994 to Meyer and Sardjono; 5,394,665 issued March 7, 1995 to Johnson; and 5,660,012 issued August 26, 1997 to Knudson among others. Such designs of tracks do suffer drawbacks in that the additional structure increases the costs of manufacturing the track. In addition, should the stud have to be installed in a position other than the regular

JJ-12 588CA

spacing, there is no support structure provided and the installer has to once again measure for the placement of the stud.

5 SUMMARY OF THE INVENTION

The present invention provides for a metal track for use in constructing metal stud walls. The track is a generally U-shaped channel having a base and upstanding  
10 side walls extending along either side of the base. The base is provided with a plurality of embossed indicator means evenly spaced along the length of the base. The spacing of the embossed indicator means provides a guide for the proper spacing of studs to be placed in the base.

15

In an aspect of the invention, the spacing between the embossed indicator means on the base is 1".

In another aspect of the invention, the embossed  
20 indicator means are spaced 4" apart on the base.

BRIEF DESCRIPTION OF THE DRAWINGS

Preferred embodiments of the present invention are shown  
25 in the attached drawings wherein:

Figure 1 is a perspective view of a section of a first embodiment of a track of the present invention;

30 Figure 2 is a side elevation view in cross-section of the track of figure 1;

Figure 3 is a perspective view of a section of a metal stud wall constructed utilizing the track of figure 1;

JJ-12 588CA

Figure 4 is a perspective view of a section of a second embodiment of a track of the present invention;

5 Figure 5 is a side elevation view in cross section of the track of figure 4; and

Figure 6 is a side elevation view in detail showing the embossed indicating means of the track of figure 4.

10

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

A first preferred embodiment of a track for use in metal stud walls is illustrated in Figures 1 and 2, generally  
15 indicated by the numeral 10. Track 10 has a base 12 and two upstanding side walls 14 extending along either side of the base 10. Base 12 is provided with a plurality of embossed indicator means 16 and 18 evenly placed along the length of the base 12. The spacing of the indicator  
20 means 16 and 18 provides a guide for the proper spacing of studs 20 placed in the track 10 as described below.

The use of the track 10 of the present invention for construction of a metal stud wall is illustrated in  
25 Figure 3. In a typical construction of a metal stud wall, the bottom and top tracks 10 are generally fastened to the floor and ceiling respectively and the vertical studs 20 bridging the two tracks 10 are placed in the channels of the tracks 10 and fastened to the tracks 10.  
30 In order to fasten the tracks 10 to the floor and ceiling respectively, the track 10 is positioned in the proper position against the floor or ceiling and screwed into the floor and ceiling. Once the tracks 10 are fastened to the floor and ceiling, the metal studs 20 are placed

JJ-12 588CA

in the tracks 10 and properly positioned for the spacing required. By utilizing the embossed indicating means 16 and 18 on the bottom and top track 10, the proper spacing of the studs 20 is easily accomplished by aligning the  
5 studs 20 with the embossed indicating means 16 or 18 located at the desired distance apart. Once the studs 20 have been properly placed in the track 10, they are fastened to the track 10 using suitable fasteners such as self-tapping metal screws 22.

10

The spacing of the indicator means 16 and 18 on the base 12 of the track 10 is selected to provide proper spacing to act as a guide for the location of the studs 20 in the completed wall. The typical spacing of studs 20 in  
15 completed walls are either 12, 16 or 24 inches on center. In order to provide the proper spacing between them, a first embossed indicator means 16 is selected to provide 12, 16 or 24 inches as a multiple of the spacing. Preferably, embossed indicator means 16 are located 4  
20 inches apart, thus providing for a guide for any multiple of 4 inches spacing by utilizing the properly spaced apart embossed indicator means 16. Thus, by selecting every third, fourth or sixth embossed indicator means 16 respectively, the spacings of 12, 16 and 24 inches on  
25 center for the studs 20 may be easily located.

A second embossed indicator means 18 is provided intermediate the first embossed indicator means 16 to provide for greater flexibility in the management of the  
30 distance along the track to which the stud is to be attached. Preferably, the second embossed indicator means 18 are spaced 1 inch apart, thus providing a ready made inch ruler along the base of the track 10.

JJ-12 588CA

In the embodiment illustrated in Figures 1 to 3, the embossed indicator means 16 and 18 are elongated embossed lines extending across the base 12. In order to  
5 differentiate the first indicator means 16 from the second indicator means 18, it is preferred if the length of the first and second indicator means 16 and 18 are different. Thus, preferably, the first indicator means 16 has a length greater than the second indicator means  
10 18. More preferably, the length of the first indicator means 16 is at least half the width of the base and length of the second indicator means 18 is less than half the width of the base 12.

15 A second embodiment of a track 10 of the present invention is illustrated in Figure 4. In contrast to the first embodiment where the embossed indicator means were linear lines across the base 12, the embodiment illustrated in Figure 4 utilizes circular punches 30 and  
20 32 as the first and second embossed indicator means. Thus, a first series of embossed punches 30 are spaced 4 inches apart while a second series of embossed punches 32 are spaced 1 inch apart.

25 In this embodiment the first and second embossed indicator means 16 and 18 are differentiated one from another by providing them in different locations along the base 12 of the track 10. For example, as illustrated in the figure first embossed indicator means 30 are  
30 provided along the edge of the base 12 of the track 10 while second embossed indicator means 32 are provided along the centre of the base 12 of the track 10. Other ways of differentiating the embossed indicator means one from the other may also be provided such that different

JJ-12 588CA

sizes of circular punches for each of the two indicator means or the number of circular punches for each of the indicator means. Thus, the first indicator means could be provided by two circular punches in the center of the base 12 of the track 10 beside each other while the second indicator means could be provided as a single circular punch in the base of the track 10.

The indicator means may also be provided in other ways. For example, suitable printing means may be used to print the indicator means along the interior of the track on the base or exterior on the side wall of the track. Preferably, this printing is accomplished by ink jet printing utilizing an ink which will adhere to the metal of the web of the track.

The track of the present invention provides the advantage that the installation and erection of metal stud walls and buildings is made easier and quicker for the installer. The embossed indicating means located in the base of the track provide a guideline for the proper spacing of the studs located in the stud wall by being able to easily locate the studs in the stud walls at their proper position. The installer's job is thus made easier as he does not have to measure to locate each stud in the proper spacing of the adjacent stud.

Although various preferred embodiments of the present invention have been described herein in detail, it would be appreciated by those skilled in the art that variations may be made thereto without departing from the spirit of the invention or the scope of the appended claims.



JJ-12 588CA

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A track for use in constructing metal stud walls,  
5 comprising a generally U-shaped channel having a base and  
upstanding side walls extending along either side of the  
base, the base being provided with a plurality of  
embossed indicator means evenly spaced along the length  
of the base, the spacing of the embossed indicator means  
10 providing a guide for the proper spacing of studs to be  
placed in the base for construction of a metal stud wall.
2. A track according to claim 1, wherein a first series  
of embossed indicator means are provided on the base  
15 spaced 4 inches apart.
3. A track according to claim 2, wherein a second series  
of embossed indicator means are provided between each of  
said first embossed indicator means spaced 1 inch apart.  
20
4. A track according to claim 2, wherein said first  
embossed indicator means are elongated embossed lines  
extending across the base.
- 25 5. A track according to claim 4, wherein said elongated  
embossed lines extend across at least half the width of  
the base.
6. A track according to claim 3, wherein said first and  
30 second embossed indicator means are each elongated  
embossed lines extending across the base, the length of  
the embossed lines of said first embossed indicator means  
being greater than the length of the embossed lines of  
said second embossed indicator means.

JJ-12 588CA

7. A track according to claim 2, wherein the first embossed indicator means are embossed circular punches in the base.

5

8. A track according to claim 3, wherein the first and second embossed indicator means are each embossed circular punches in the base, the size or orientation of the circular punches of one of the first or second embossed indicator means being different from the other to differentiate the first and second embossed indicator means from one another.

10

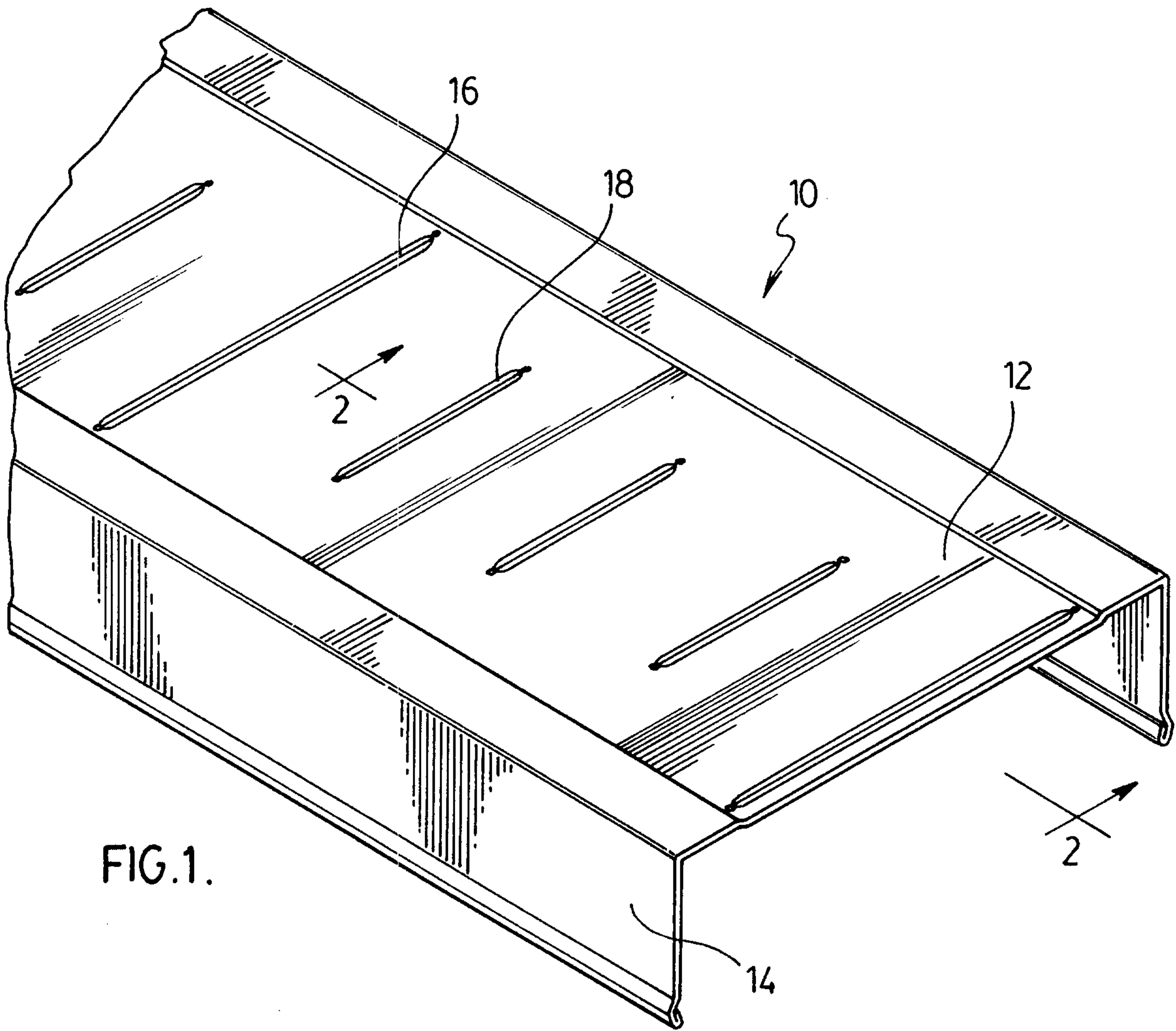


FIG. 1.

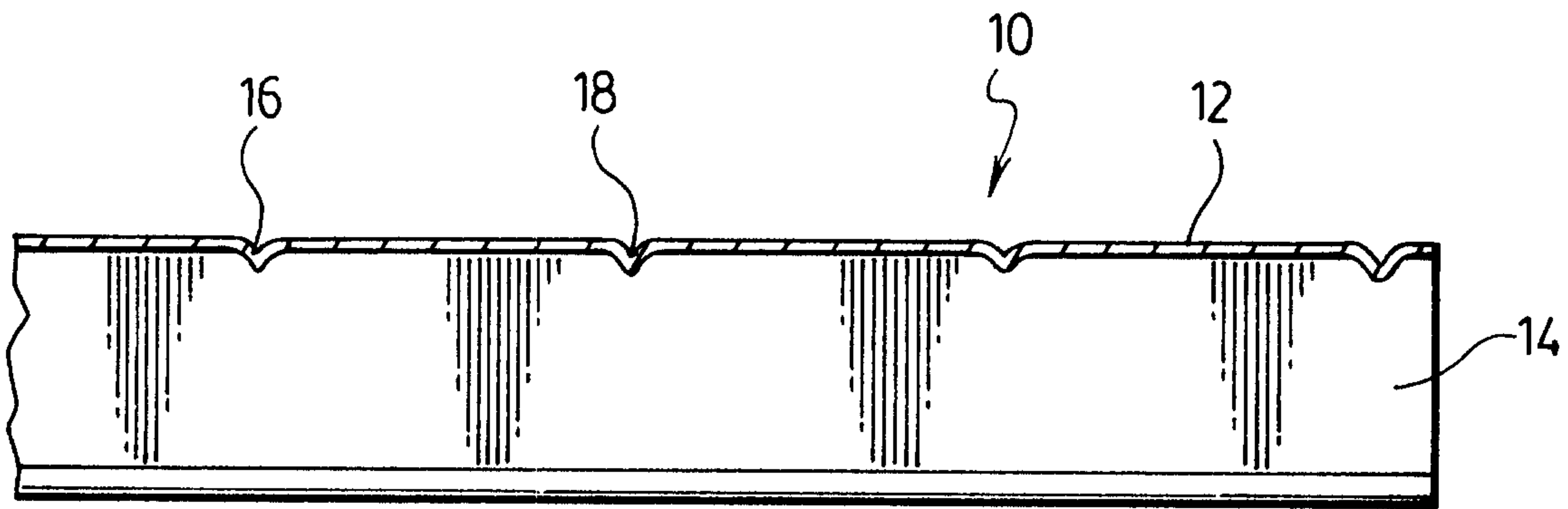
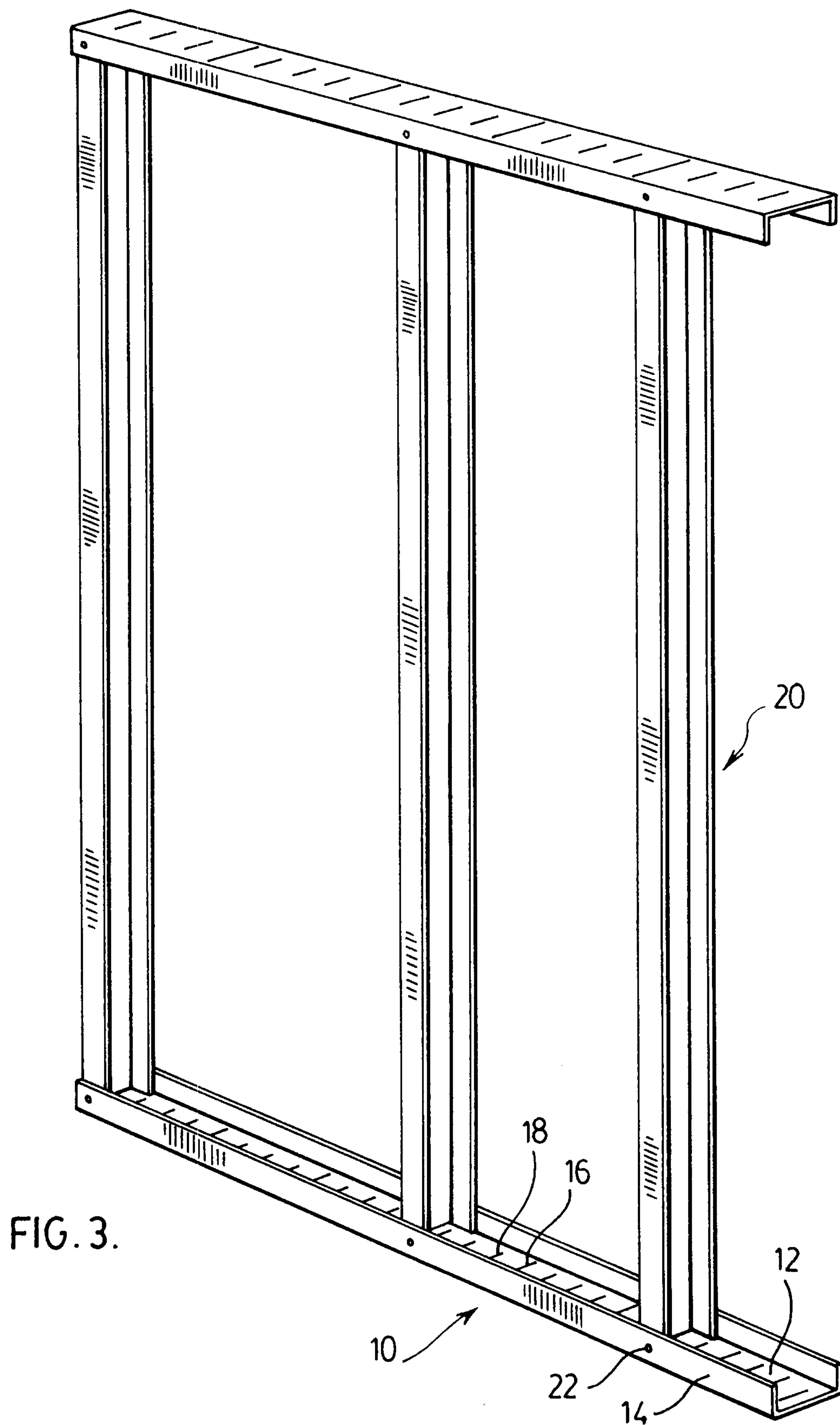


FIG. 2.



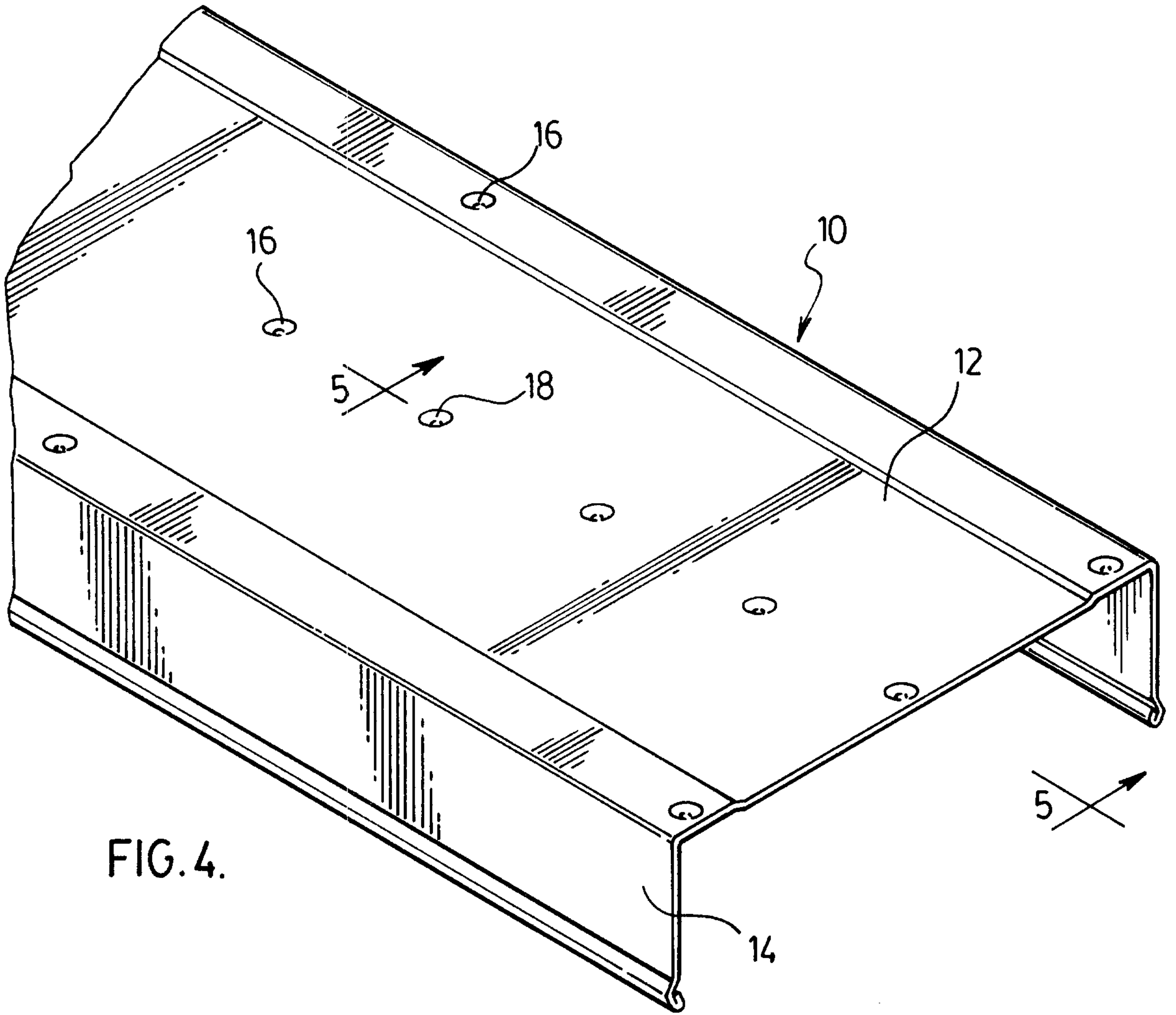


FIG. 4.

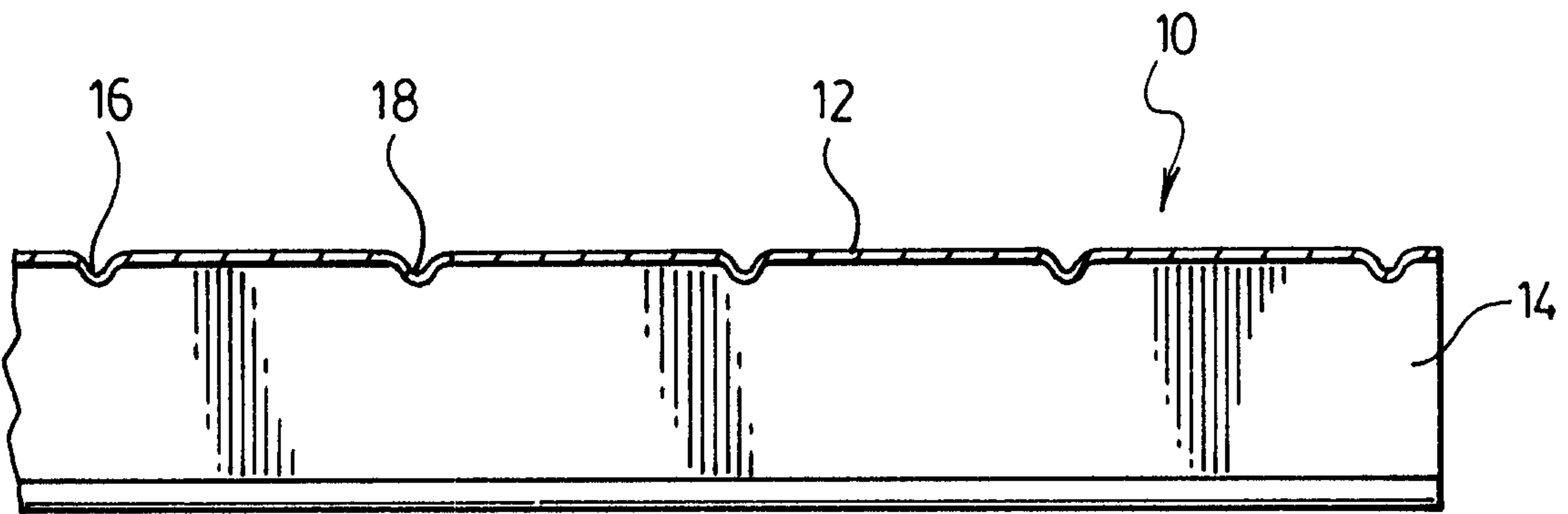


FIG. 5.

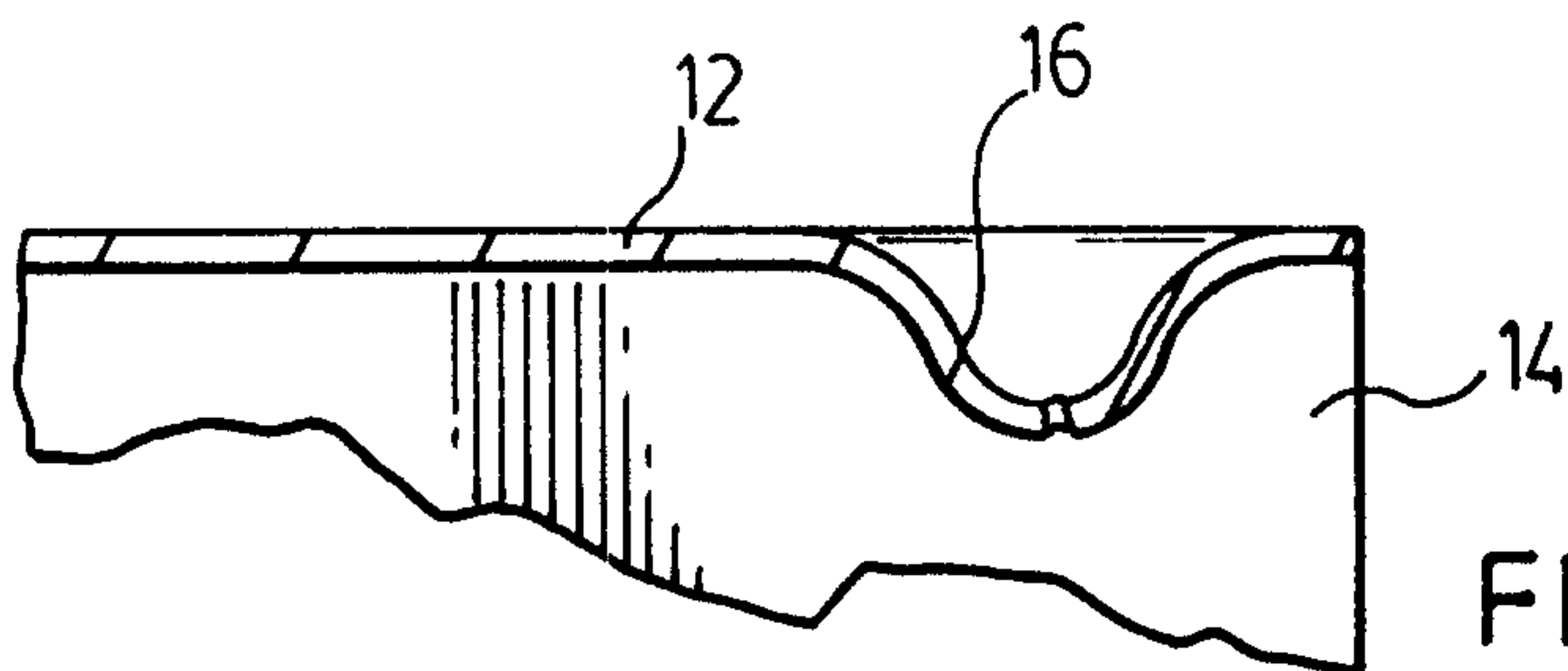


FIG. 6.

