



US00D634570S

(12) **United States Design Patent**
Lin

(10) **Patent No.:** **US D634,570 S**
(45) **Date of Patent:** **** Mar. 22, 2011**

(54) **SHELF**

(75) Inventor: **Xiang Qian Lin**, Singapore (SG)

(73) Assignee: **Esco Technologies (Asia) Pte Ltd**,
Singapore (SG)

(**) Term: **14 Years**

(21) Appl. No.: **29/349,661**

(22) Filed: **Apr. 20, 2010**

(51) **LOC (9) Cl.** **06-04**

(52) **U.S. Cl.** **D6/511**

(58) **Field of Classification Search** D6/511-513,
D6/474, 396-397, 418, 430, 449, 426, 572,
D6/574; 211/193, 88.01, 90.01, 134, 71.01,
211/126, 153; 108/159.11, 106, 180, 137,
108/153.1

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,974,843	A *	3/1961	Reifers et al.	.....	229/407
4,038,149	A	7/1977	Liner et al.		
4,154,795	A *	5/1979	Thorne	.....	422/99
D260,568	S *	9/1981	Cherry	.....	D3/314
D266,772	S *	11/1982	Sayers	.....	D19/92
4,953,473	A *	9/1990	Tomaka et al.	.....	108/132
5,222,612	A	6/1993	Binder		
D362,572	S *	9/1995	Joseph, Jr.	.....	D6/511
D387,874	S *	12/1997	Vila	.....	D24/227
D413,217	S *	8/1999	Bidwell et al.	.....	D6/510
6,148,736	A	11/2000	Erbs		
D454,371	S *	3/2002	Goodman et al.	.....	D19/92
D493,256	S *	7/2004	Kim	.....	D28/61
D515,315	S *	2/2006	Rader et al.	.....	D3/304
D566,556	S *	4/2008	Baker et al.	.....	D9/456
D572,056	S *	7/2008	McConnell	.....	D6/511
D574,005	S *	7/2008	Chung	.....	D14/447
D579,237	S *	10/2008	Gusdorf	.....	D6/462

D587,492	S *	3/2009	Gusdorf	.....	D6/462
D592,897	S *	5/2009	Welsch et al.	.....	D6/511
D597,354	S *	8/2009	Liss	.....	D6/511

OTHER PUBLICATIONS

Extract from website of Fisher Scientific; Copyright 2010 Thermo Fisher Scientific Inc.; "Shelves for Fisher Scientific* Isotemp* Freezers, Refrigerators, and Refrigerator/Freezers"; 1-Page.
Extract from website of Labconco Corporation; Labconco Corpl; Copyright 2009; "Tray with Slide Out Bottom"; 1-page.

* cited by examiner

Primary Examiner — Elizabeth A Albert

Assistant Examiner — Kelley A Donnelly

(74) *Attorney, Agent, or Firm* — Nields, Lemack & Frame, LLC

(57) **CLAIM**

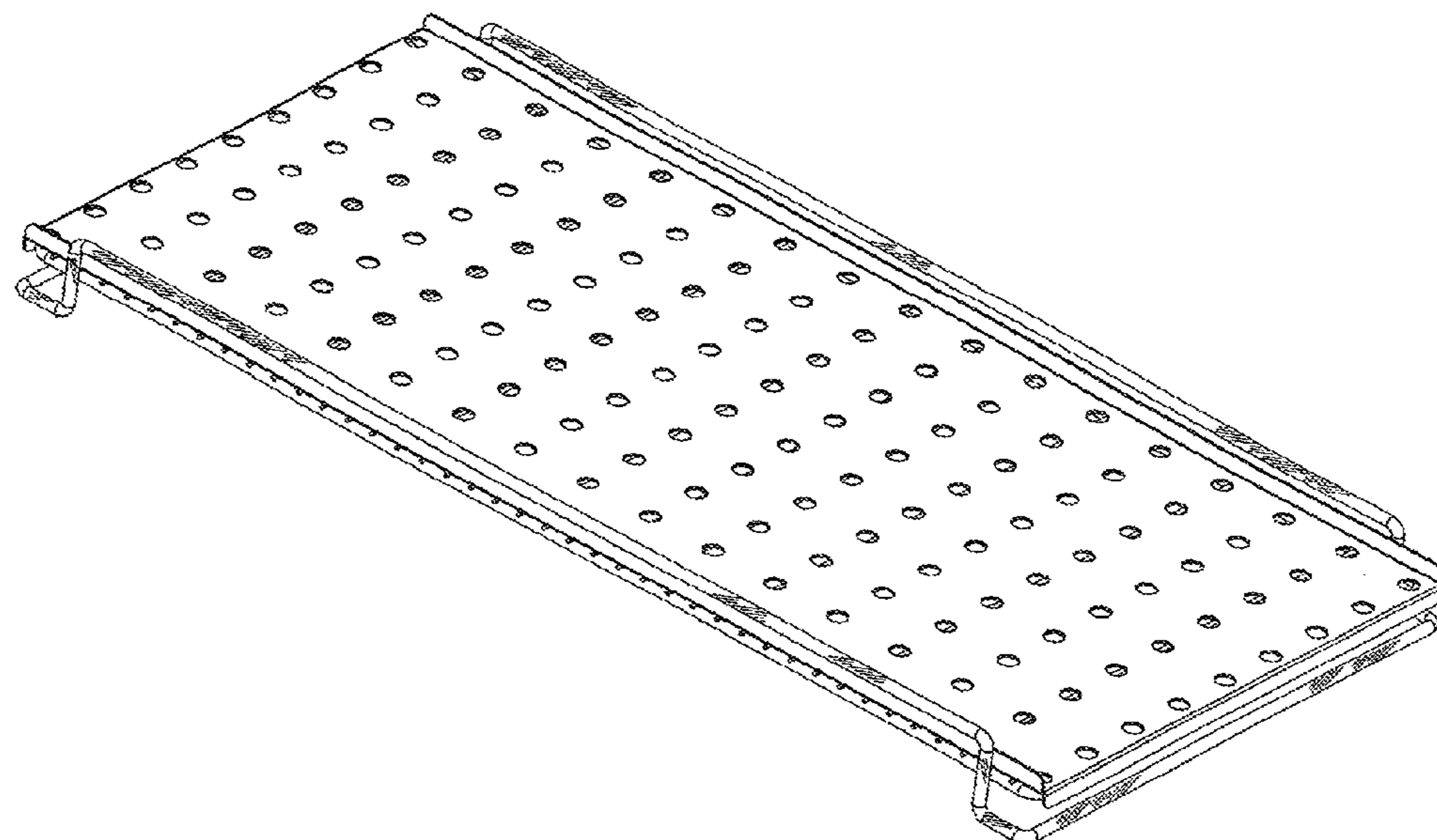
The ornamental design for a shelf, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of the shelf;
FIG. 2 is a front view of the shelf;
FIG. 3 is a top view of the shelf;
FIG. 4 is a side view of the shelf;
FIG. 5 is a bottom view of the shelf;
FIG. 6 is a rear view of the shelf;
FIG. 7 is a side perspective view of the shelf; and,
FIG. 8 is a front perspective view of the shelf.

The main objective of the shelf is to allow both small and heavy loads to be placed on both sides of the shelf without influence on airflow inside the testing equipment. It includes a shelf with an obdurate steel wire frame and a stainless steel plate with holes. The holes promote free air flow inside the testing equipment. The shelf has a parallel runner so that it will not be dumped when the user pulls or pushes the shelf for adjusting the experimental loads.

1 Claim, 4 Drawing Sheets



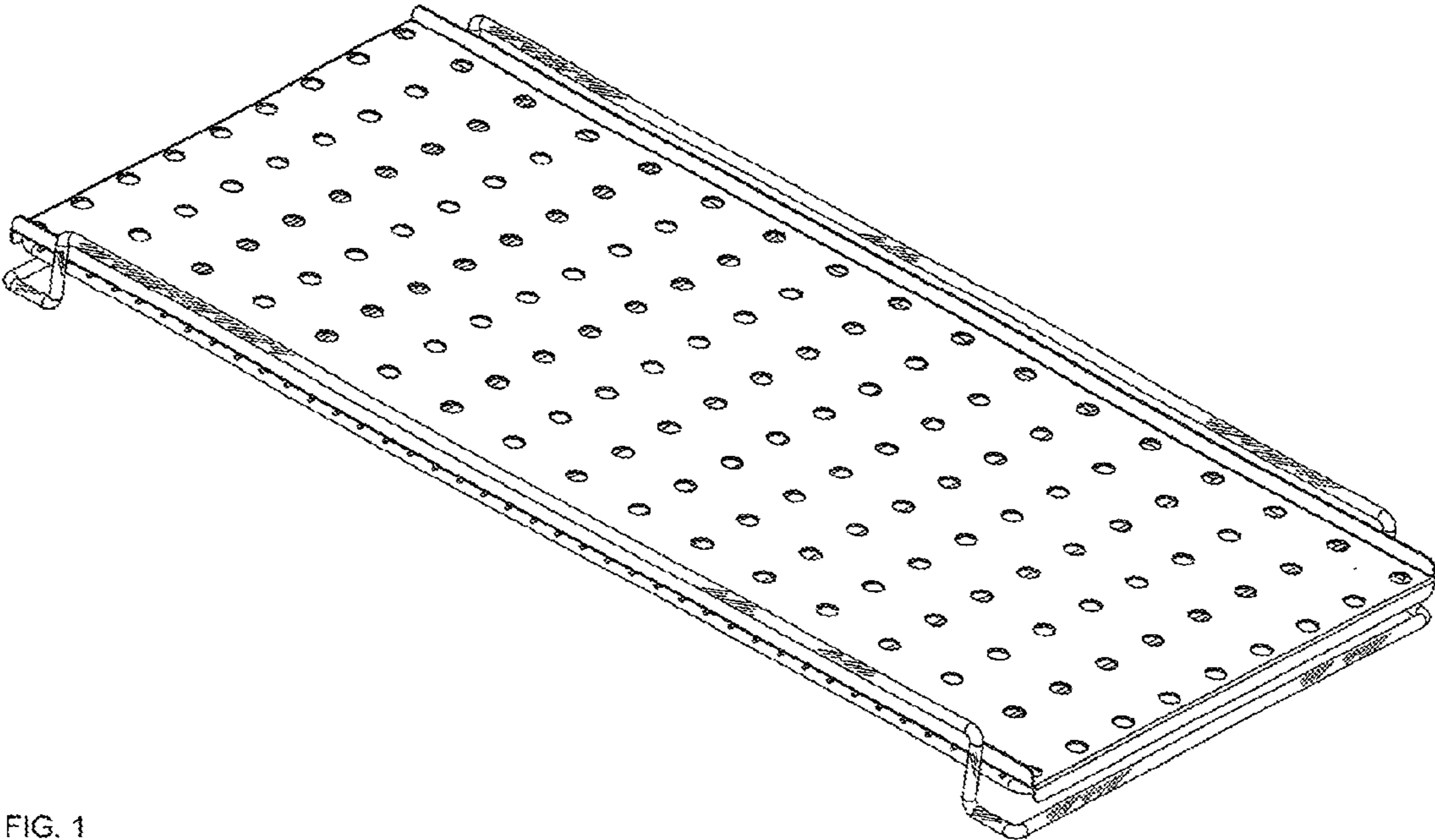


FIG. 1

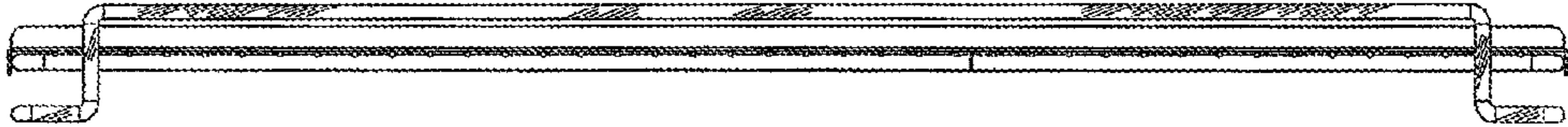


FIG. 2

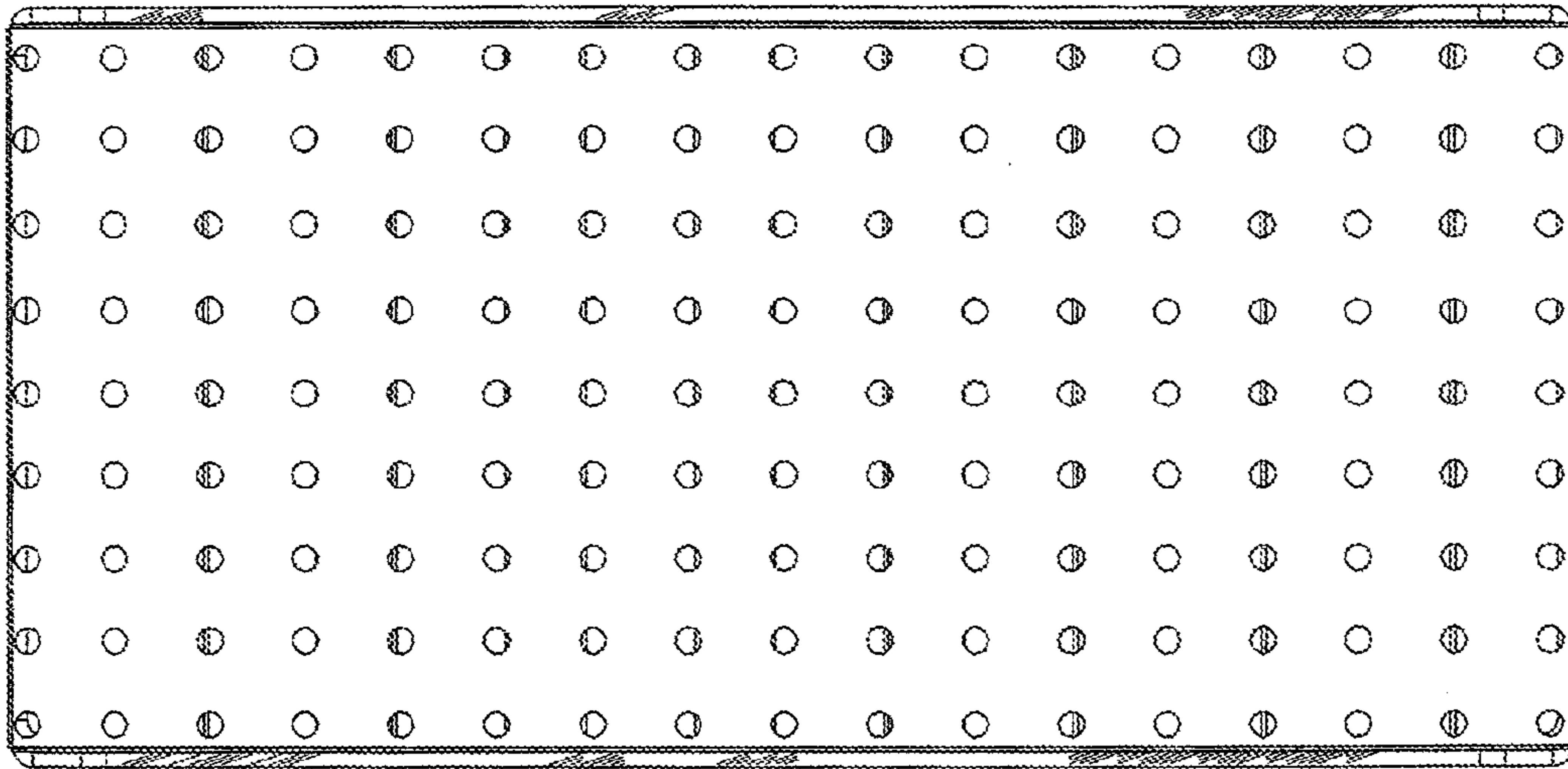


FIG. 3



FIG. 4

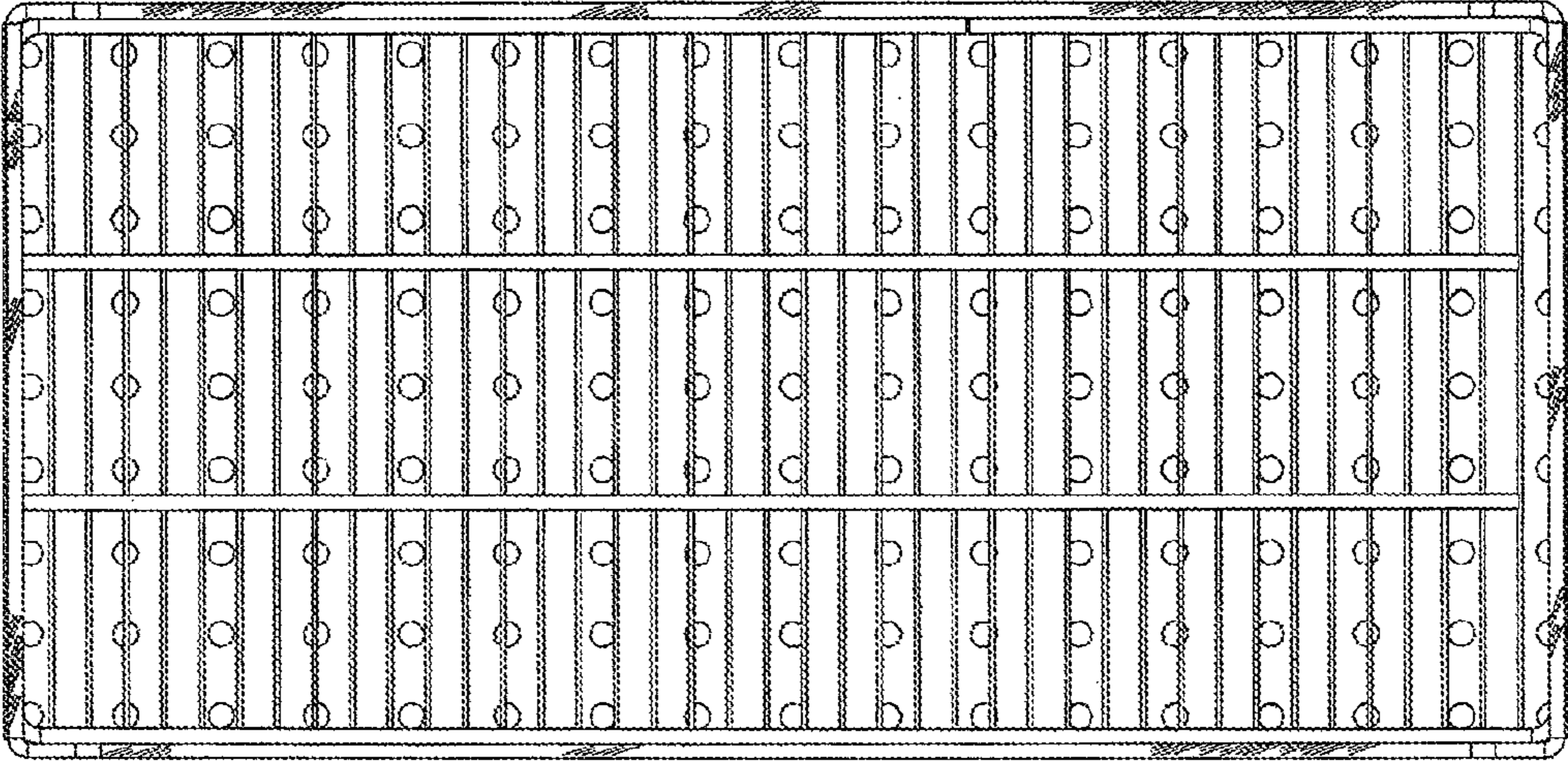


FIG. 5

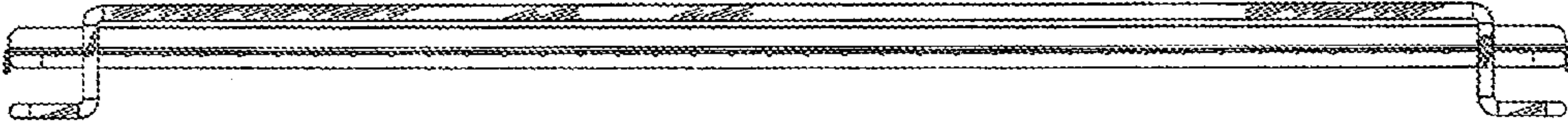


FIG. 6

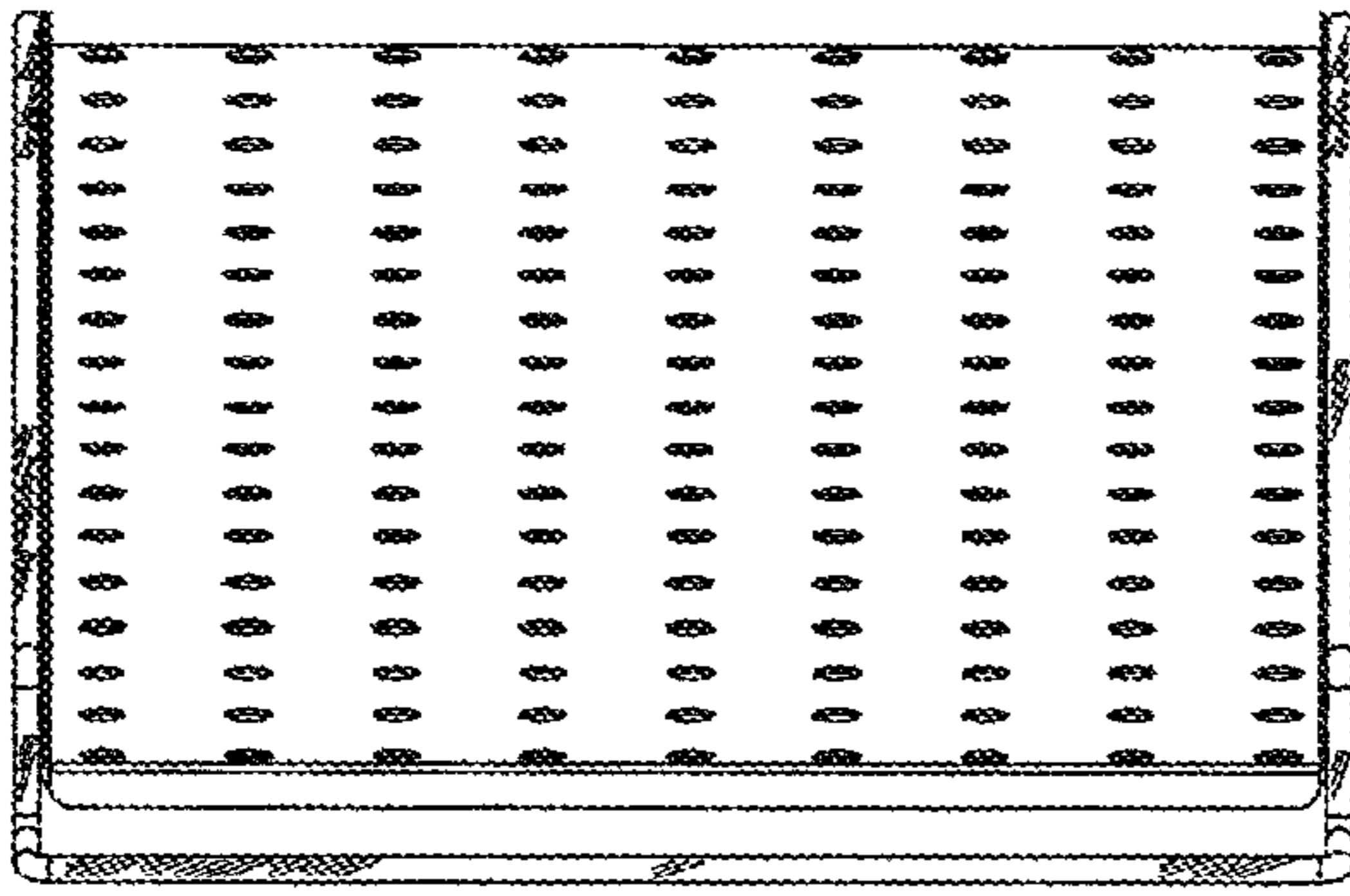


FIG. 7

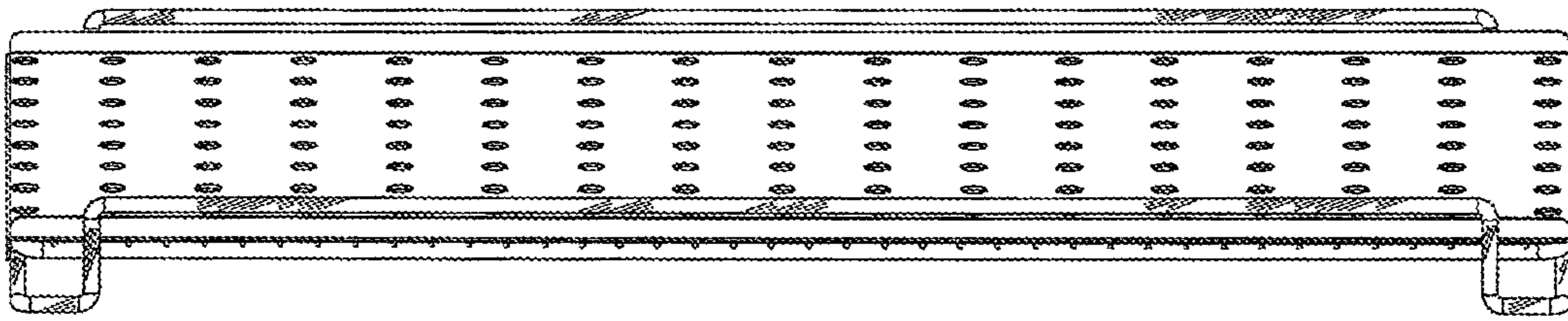


FIG. 8