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(12) **United States Design Patent**  
**Välivainio et al.**

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(54) **CONNECTION BAR**

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

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(52) **U.S. Cl.**  
USPC ..... **D13/158**

(58) **Field of Classification Search**

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CPC ..... F24D 19/1096; G05B 19/042; G05B 19/0426; G05B 2219/23043; G05B 2219/23051; G05B 2219/23297; G05B 2219/23406; G05B 2219/25085; G05B 2219/2625; H01H 35/027; H01H 19/64; H01H 1/365; H01H 2071/0292; H01H 21/54; H01H 71/0271; H05B 1/0277; H05B 2203/032; H01R 4/36; H01R 4/4827; H01R 9/2491; H01R 9/26; H01R 9/2658; H01R 13/447; H01R 13/50; H01R 13/501; H01R 29/00; H01R 31/08; H01R 4/2433

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D175,455	S	*	8/1955	Bartleman	.....	D6/572
D213,963	S	*	4/1969	Dinkel	.....	D13/154
D311,487	S	*	10/1990	Platt	.....	D8/396
5,424,900	A	*	6/1995	Kiiskinen et al.	.....	361/116
D372,620	S	*	8/1996	Tisbo	.....	D6/572
6,459,353	B1	*	10/2002	Mattlar et al.	.....	337/9
D575,631	S	*	8/2008	Huang	.....	D8/354
7,741,572	B2	*	6/2010	Mattlar et al.	.....	200/50.32
D642,991	S	*	8/2011	Mattlar et al.	.....	D13/158
D653,624	S	*	2/2012	Mattlar et al.	.....	D13/158
D654,441	S	*	2/2012	Mattlar et al.	.....	D13/158
D654,878	S	*	2/2012	Mattlar et al.	.....	D13/158
D655,680	S	*	3/2012	Mattlar et al.	.....	D13/158
D679,663	S	*	4/2013	Mattlar et al.	.....	D13/158
D714,228	S	*	9/2014	Valivainio et al.	.....	D13/158
2007/0188279	A1	*	8/2007	Kim	.....	335/202
2013/0001953	A1	*	1/2013	Brignoli et al.	.....	290/55

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a connection bar, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a connection bar showing our new design.

FIG. 2 is a front elevational view thereof.

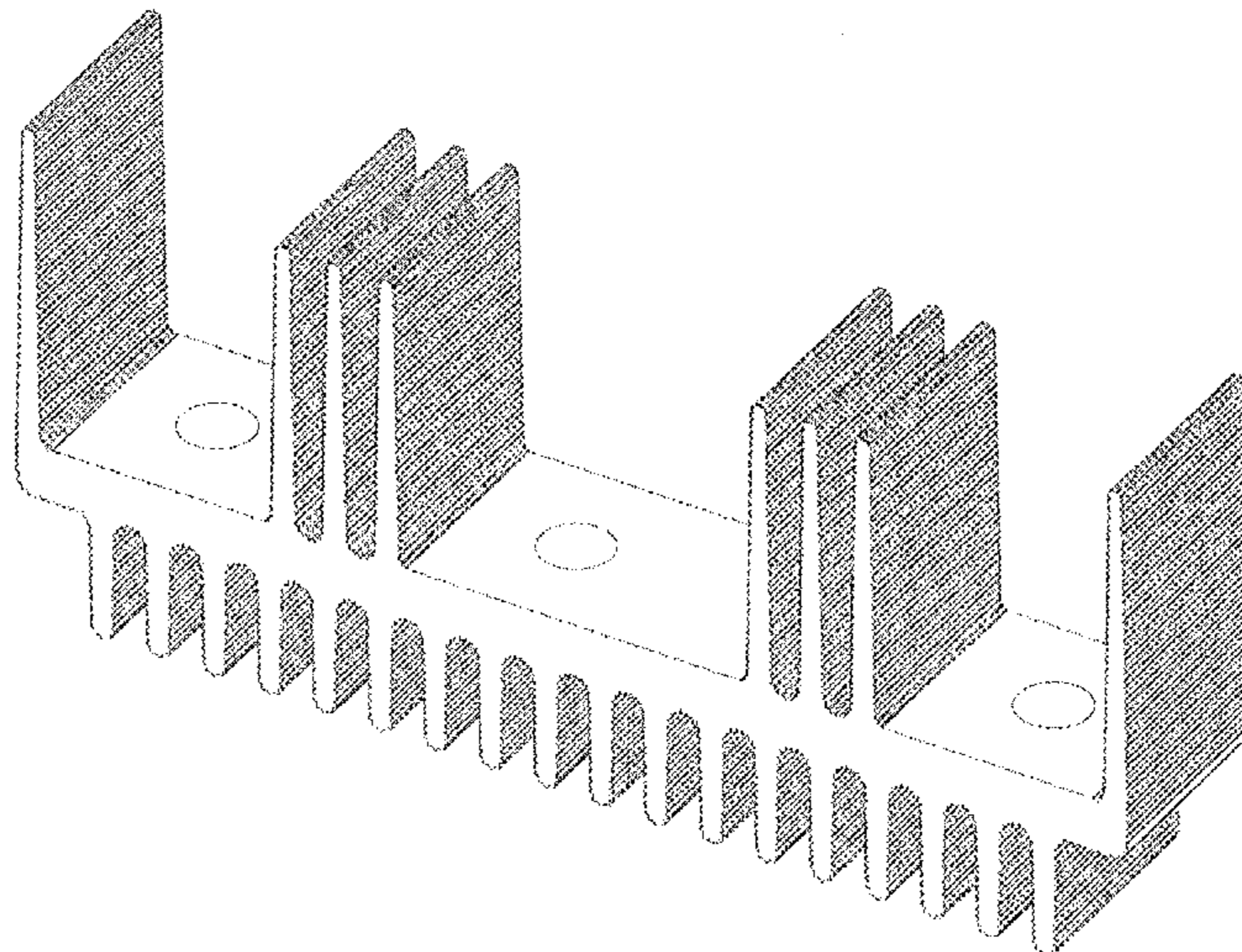
FIG. 3 is a left end elevational view thereof.

FIG. 4 is a right end elevational view thereof.

FIG. 5 is a top plan view thereof; and,

FIG. 6 is a bottom plan view thereof.

**1 Claim, 6 Drawing Sheets**



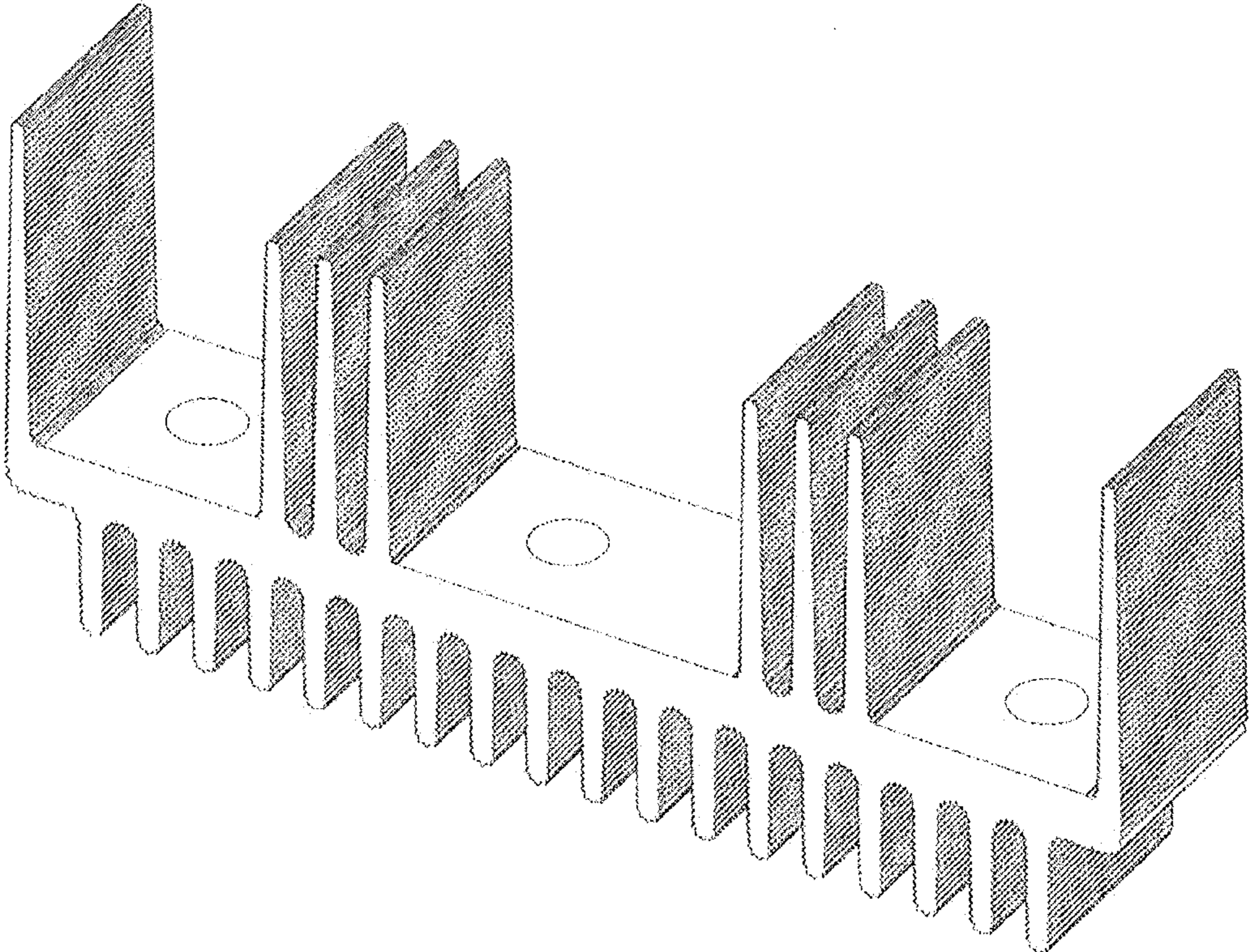
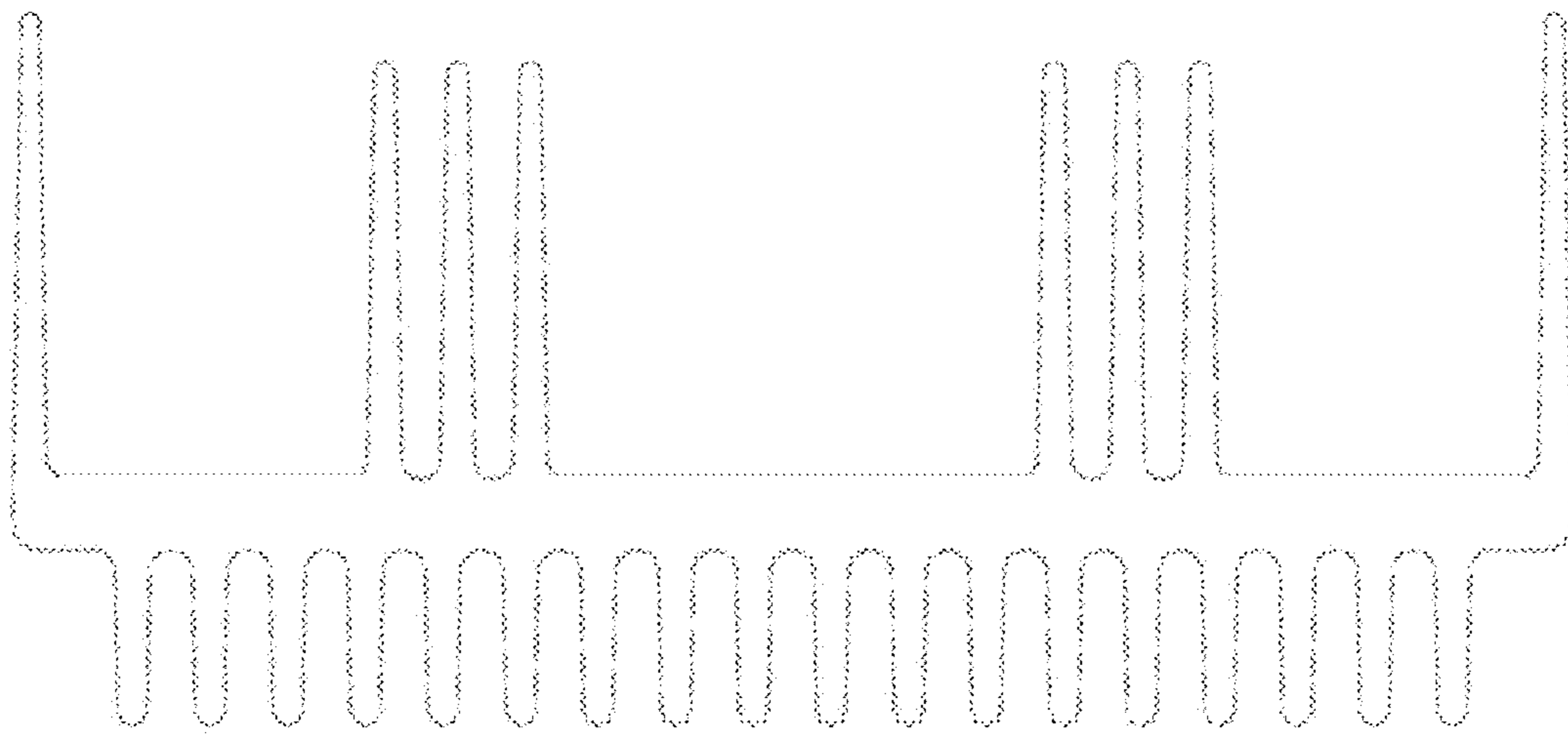
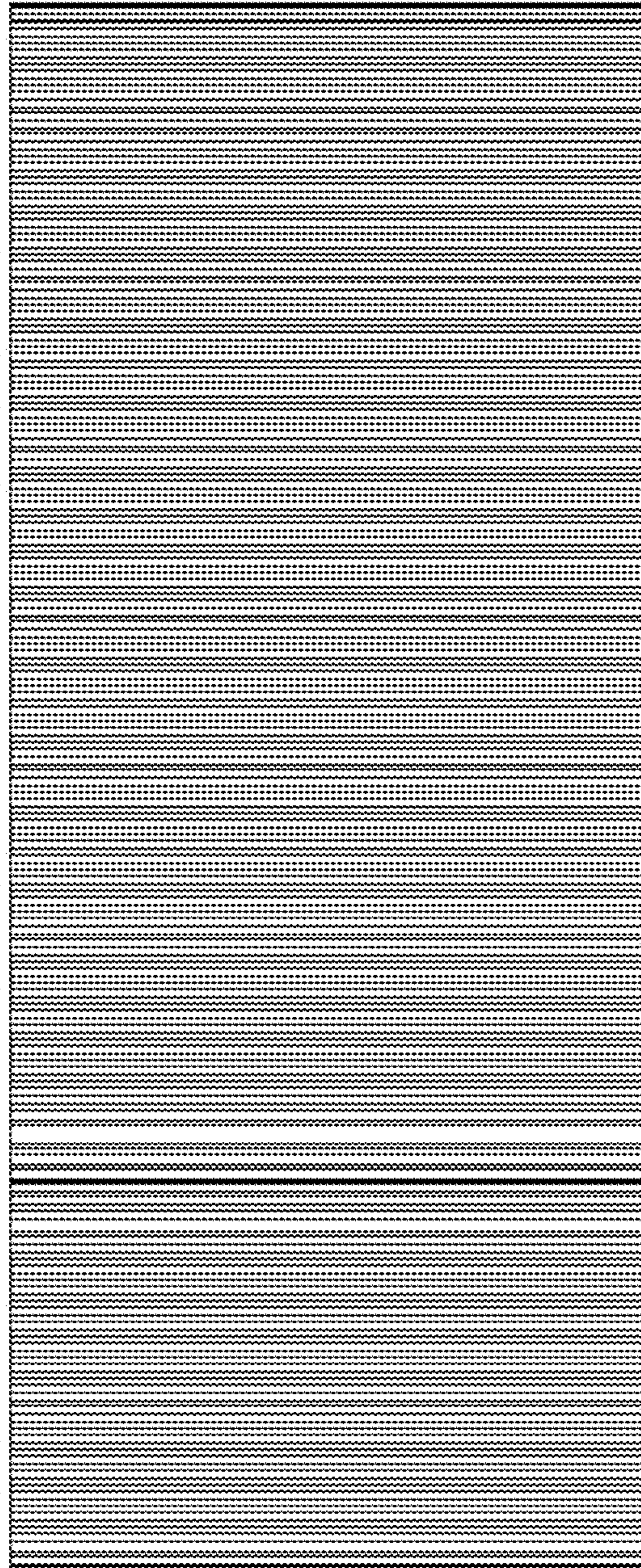


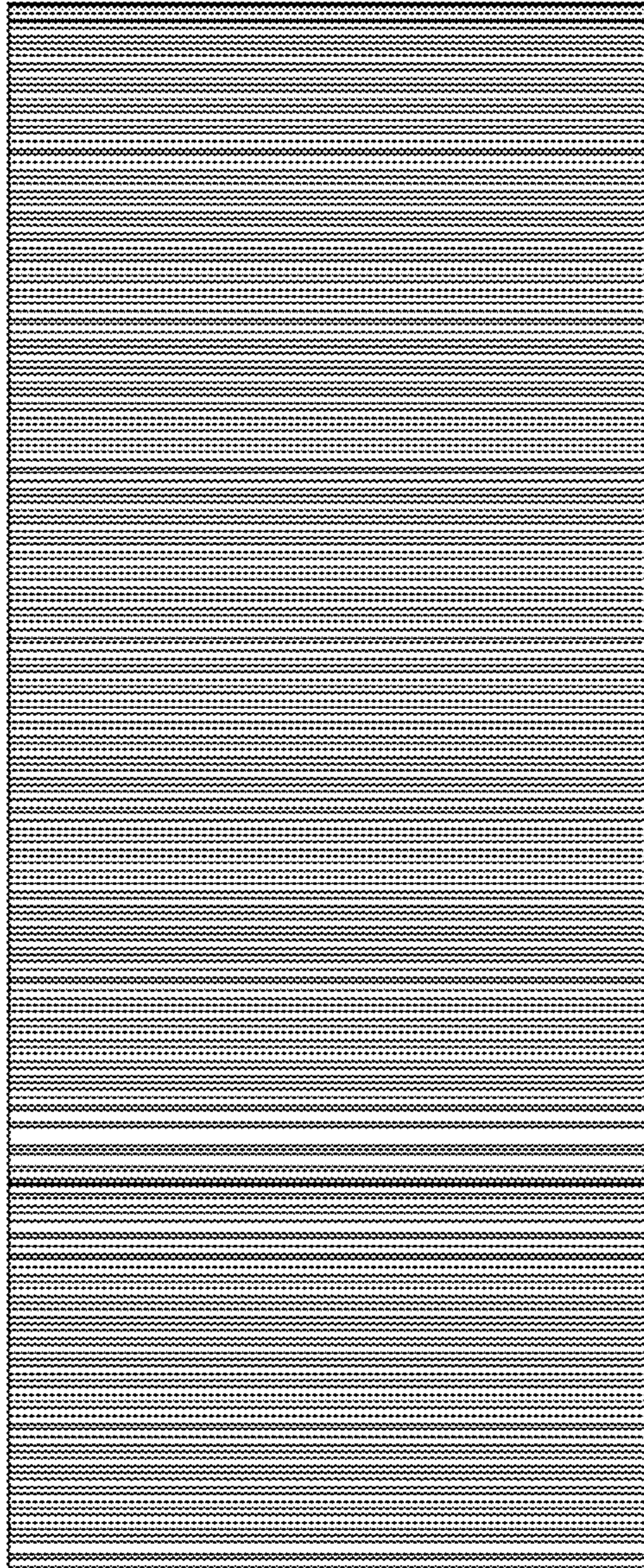
FIG. 1



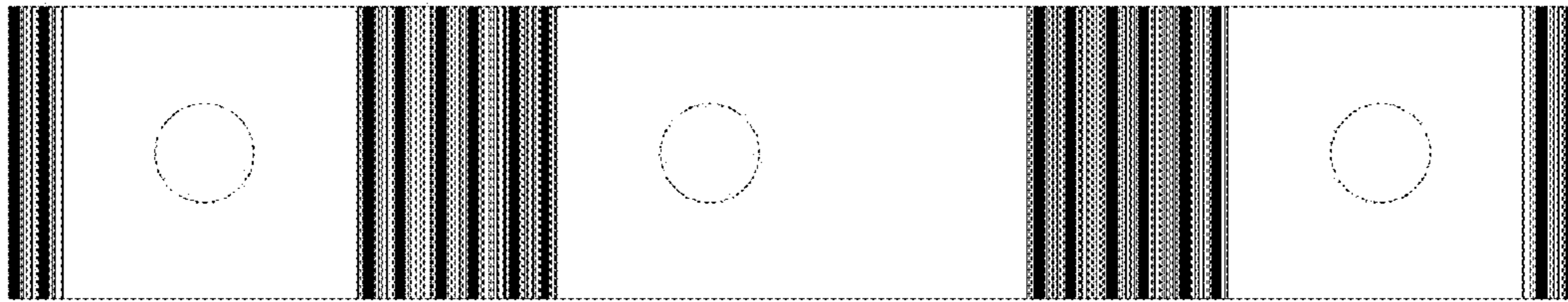
**FIG. 2**



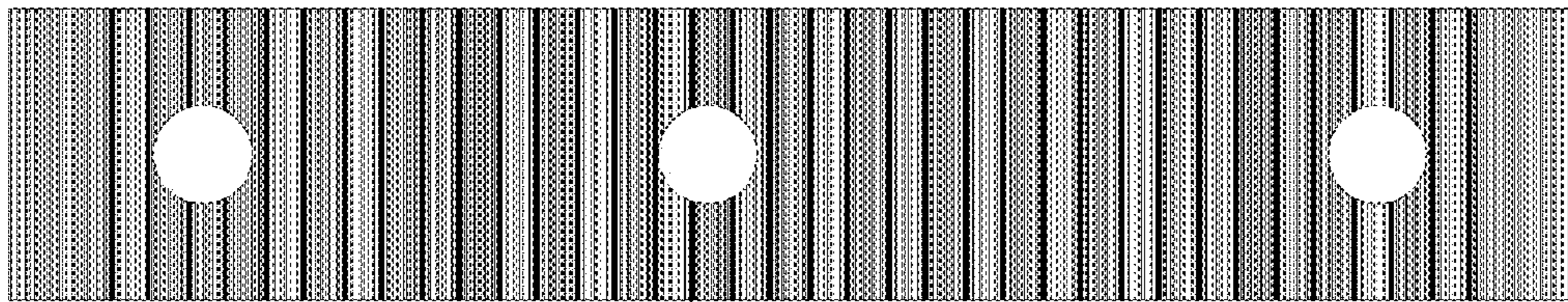
**FIG. 3**



**FIG. 4**



**FIG. 5**



**FIG. 6**