



US00D841604S

(12) **United States Design Patent** (10) **Patent No.:** **US D841,604 S**
Antony et al. (45) **Date of Patent:** **** *Feb. 26, 2019**

- (54) **LIGHTING MODULE HEATSINK EXTRUSION**
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- (73) Assignee: **Flex Ltd**, Singapore (SG)
- (*) Notice: This patent is subject to a terminal disclaimer.
- (**) Term: **15 Years**
- (21) Appl. No.: **29/613,365**
- (22) Filed: **Aug. 9, 2017**
- (51) **LOC (11) Cl.** **13-03**
- (52) **U.S. Cl.**
USPC **D13/179**
- (58) **Field of Classification Search**
USPC D13/179, 122, 182; D26/67, 138, 141, D26/152, 37, 42, 43, 142; D25/121, 122, D25/123, 124, 125
CPC .. H05K 7/20; H05K 7/20172; H05K 7/20127; H05K 7/20336; H05K 7/202; H05K 7/20272; H01L 23/34; H01L 23/3672; H01L 23/40; H01L 23/4006; H01L 23/4093; F28D 15/0208; F28D 15/04; F21S 4/28; F21S 4/20; F21V 29/70
See application file for complete search history.

- (56) **References Cited**
U.S. PATENT DOCUMENTS
D243,685 S * 3/1977 Dallaire D25/124
5,040,347 A * 8/1991 Valvis E06B 3/68
29/445
D378,424 S * 3/1997 Leonelli D25/122
5,746,502 A * 5/1998 Huang F21S 8/033
362/223
D418,231 S * 12/1999 DiGiorgio D25/124

- D424,215 S * 5/2000 Eyring D25/122
 - D429,023 S * 8/2000 Hughes D26/138
 - D465,462 S * 11/2002 Hsieh D13/179
 - D491,677 S * 6/2004 Barnett D25/119
 - D529,874 S * 10/2006 Ness D13/179
 - D619,550 S * 7/2010 Hwang D13/179
 - 7,857,482 B2 * 12/2010 Reo F21V 5/008
362/225
 - D652,568 S * 1/2012 Trzesniowski D26/138
 - D662,256 S * 6/2012 Klu D26/138
- (Continued)

OTHER PUBLICATIONS

Klus Designs, "LED Extrusions", Accessed Jun. 19, 2018. (<http://www.klusdesign.com/products/led-extrusions>).*

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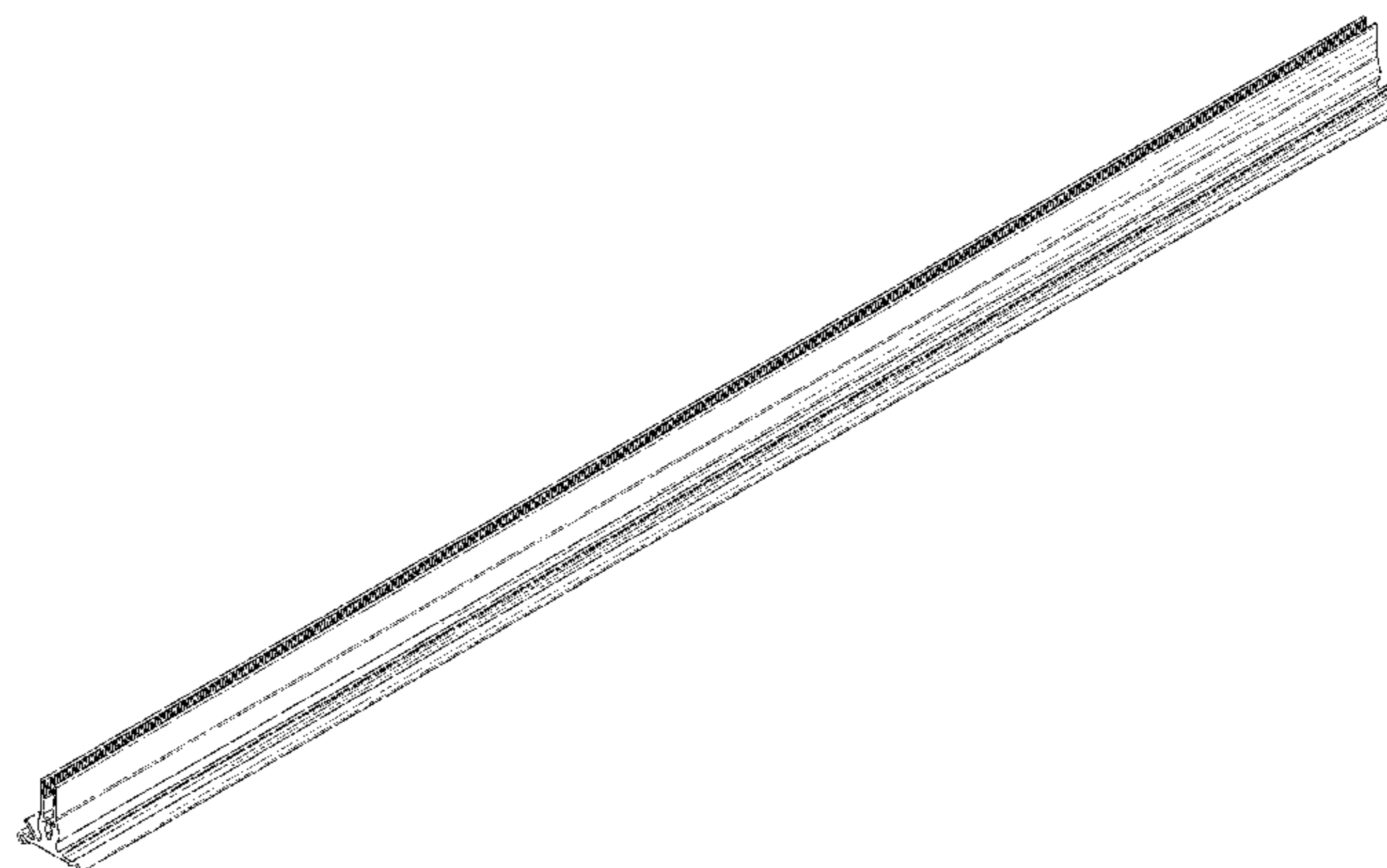
(57) **CLAIM**

The ornamental design for a lighting module heatsink extrusion, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a lighting module heatsink extrusion in accordance with the present design; FIG. 2 is a front view of the lighting module heatsink extrusion of FIG. 1, shown increased in scale for clarity; FIG. 3 is a rear view of the lighting module heatsink extrusion of FIG. 1, shown increased in scale for clarity; FIG. 4 is a left, side view of the lighting module heatsink extrusion of FIG. 1; FIG. 5 is a right, side view of the lighting module heatsink extrusion of FIG. 1; FIG. 6 is a top view of the lighting module heatsink extrusion of FIG. 1; and, FIG. 7 is a bottom view of the lighting module heatsink extrusion of FIG. 1.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D693,316	S *	11/2013	Korzonek	D13/179
D695,220	S *	12/2013	Lamouree	D13/122
D695,221	S *	12/2013	Lamouree	D13/122
D751,248	S *	3/2016	Klus	D26/138
D782,106	S *	3/2017	Porciatti	D26/138
9,618,194	B2 *	4/2017	Tress	F21V 23/006
9,863,591	B2 *	1/2018	Germain	F21S 8/06
9,909,736	B2 *	3/2018	Kim	F21V 7/0016
D818,187	S *	5/2018	Trzesniowski	D26/138
D818,189	S *	5/2018	Trzesniowski	D26/138
D818,194	S *	5/2018	Trzesniowski	D26/138
2006/0146531	A1 *	7/2006	Reo	F21V 5/008 362/244

* cited by examiner

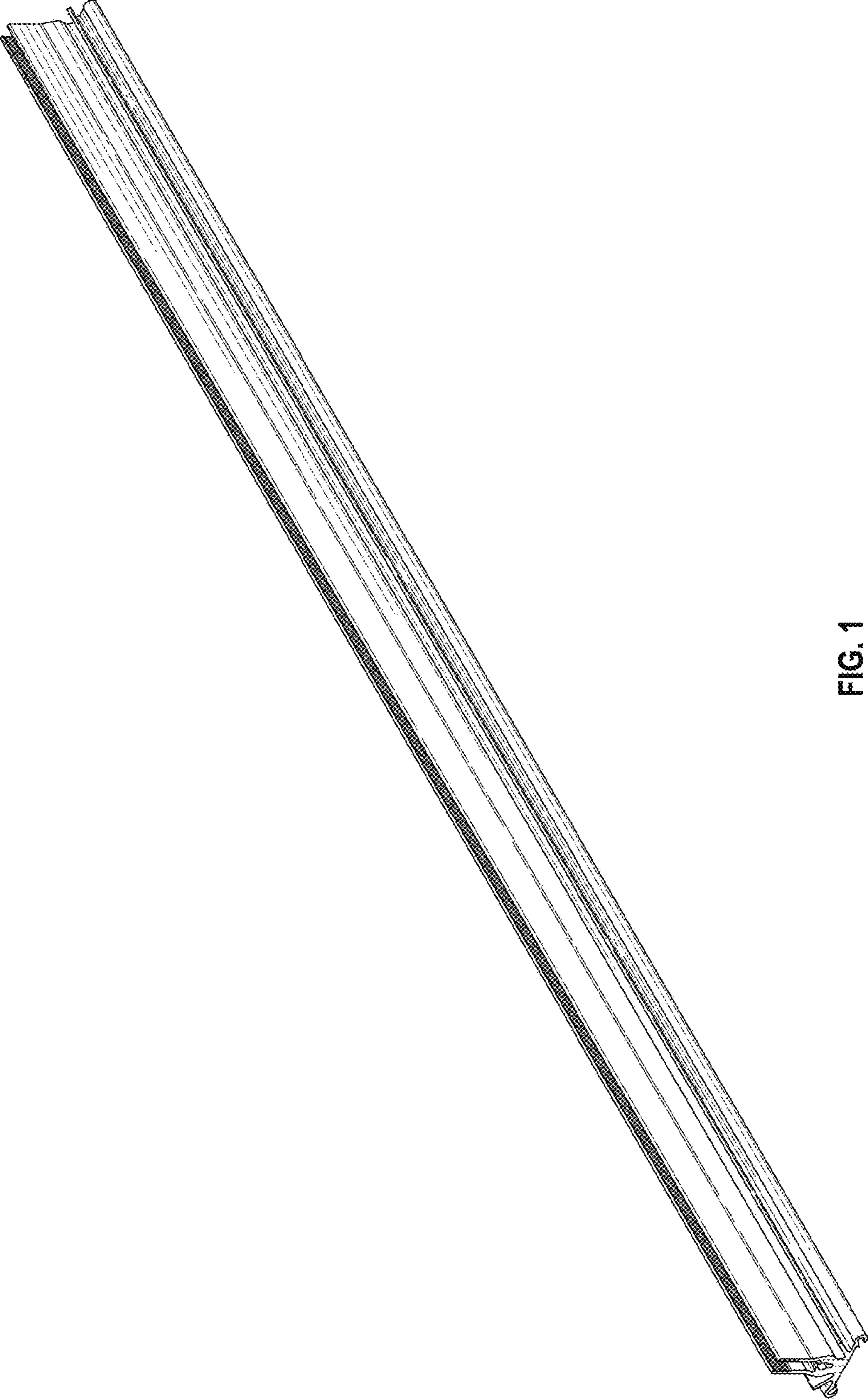


FIG. 1

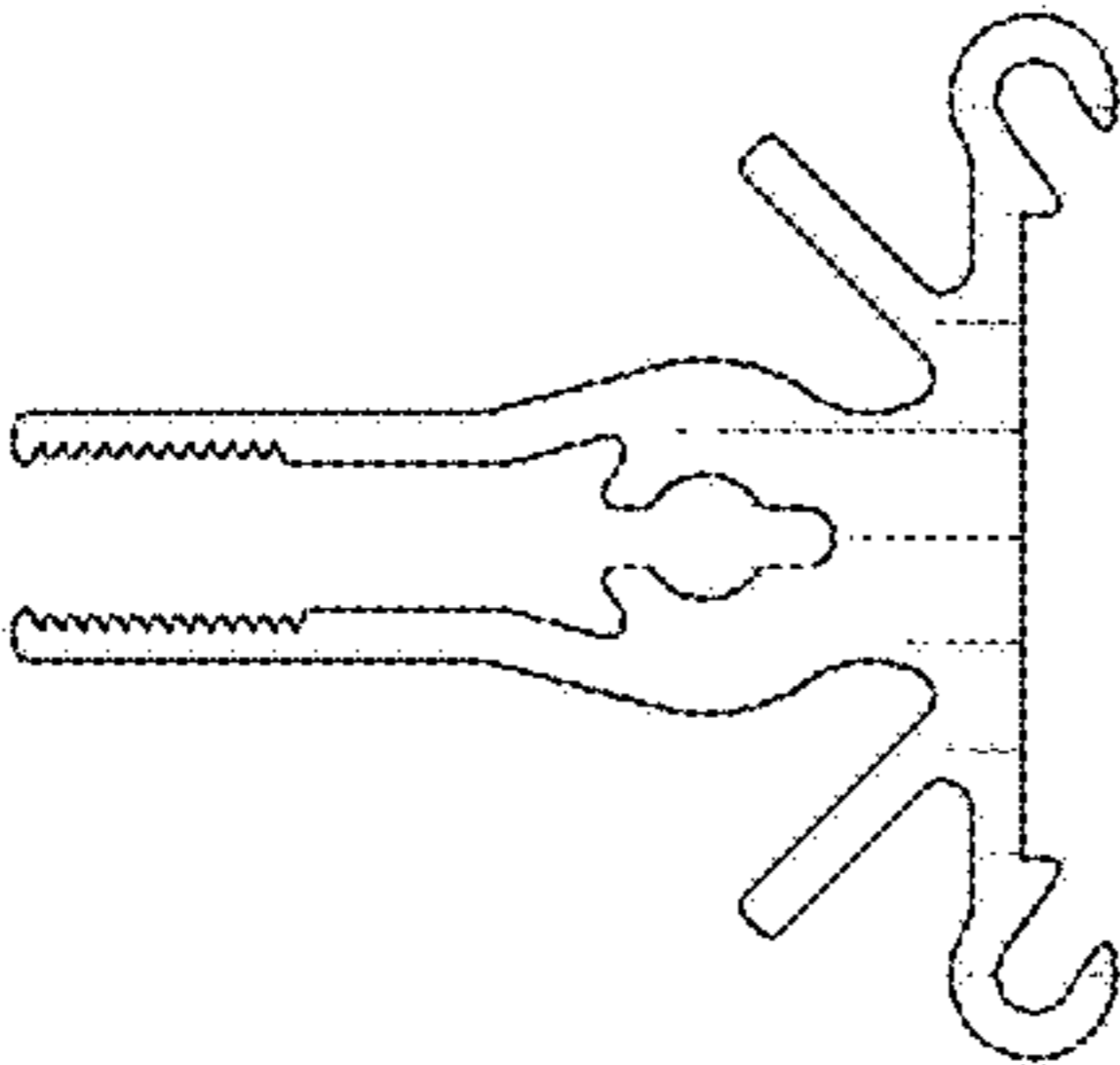


FIG. 2

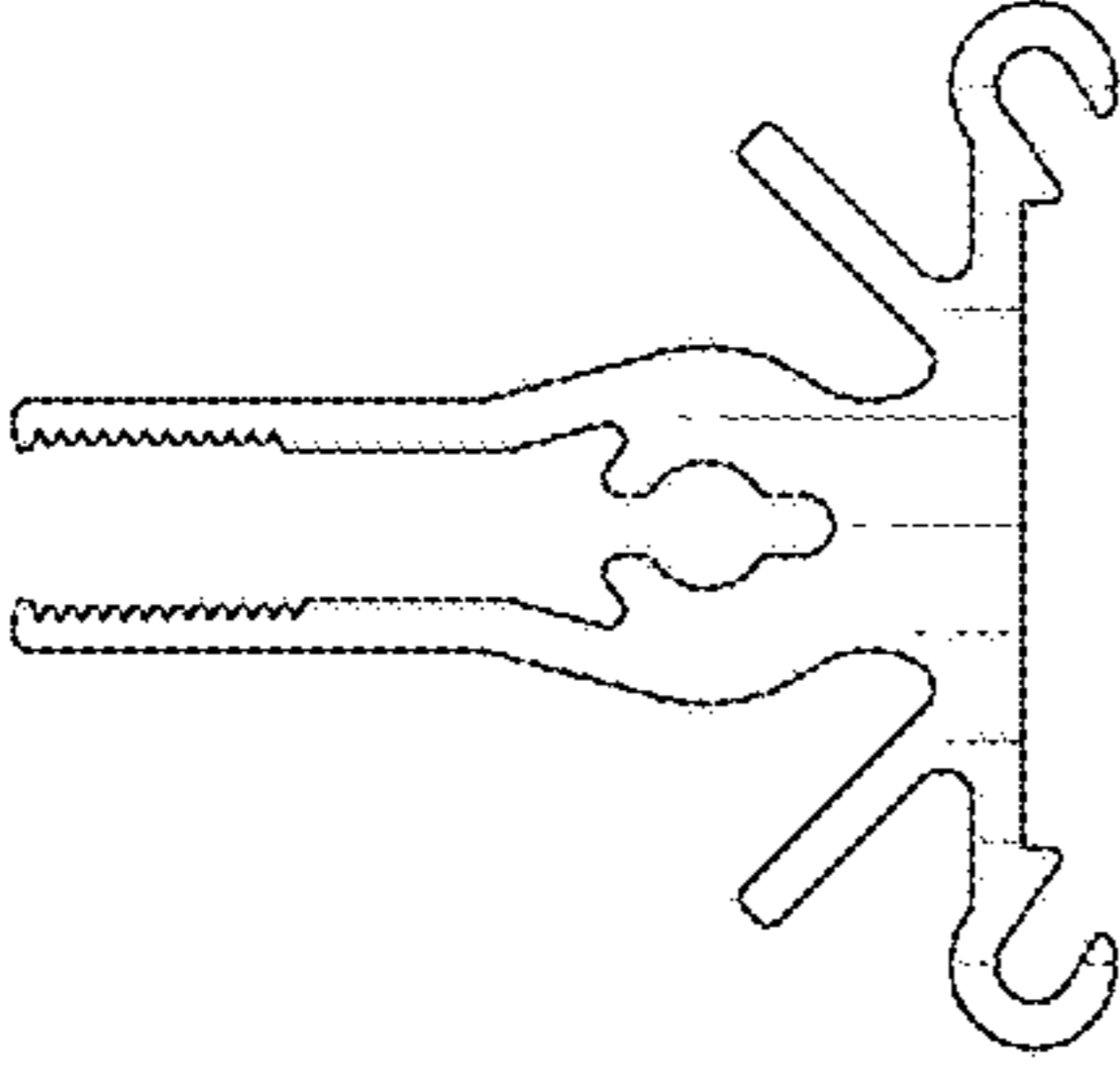


FIG. 3

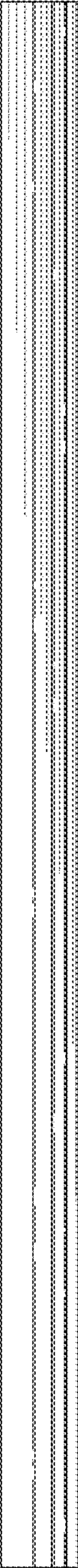


FIG. 4



FIG. 5



FIG. 6

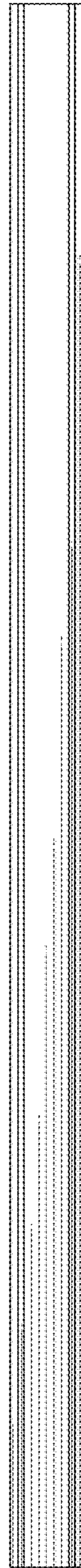


FIG. 7