



US00D749385S

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

(10) **Patent No.:** **US D749,385 S**
(45) **Date of Patent:** **** Feb. 16, 2016**

- (54) **OPEN END OF A WRENCH HEAD**
- (71) Applicant: **IDEAL INDUSTRIES, INC.**,
Sycamore, IL (US)
- (72) Inventor: **Brenton Michael Solar**, Genoa, IL (US)
- (73) Assignee: **IDEAL Industries, Inc.**, Sycamore, IL
(US)
- (**) Term: **14 Years**
- (21) Appl. No.: **29/499,285**
- (22) Filed: **Aug. 13, 2014**
- (51) **LOC (10) Cl.** **08-05**
- (52) **U.S. Cl.**
USPC **D8/28**
- (58) **Field of Classification Search**
USPC D8/17, 21-29; 81/58, 58.2, 119, 124.2,
81/124.4, 125.1, 186
CPC B25B 13/02; B25B 13/08; B25B 13/04;
B25B 13/065
See application file for complete search history.

6,009,778	A	1/2000	Hsieh	
6,082,228	A *	7/2000	Macor	81/119
6,098,501	A	8/2000	Sundstrom	
D431,432	S *	10/2000	Hsieh	D8/28
6,145,414	A *	11/2000	Hsieh	81/119
D440,839	S	4/2001	Lee	
D474,663	S	5/2003	Chen-Li	
6,755,098	B2 *	6/2004	Huang	81/119
7,168,347	B2 *	1/2007	Hsieh	81/186
7,228,764	B1	6/2007	Macor	
D549,059	S *	8/2007	Wu	D8/27
D552,437	S *	10/2007	Hsieh	D8/27
D552,438	S *	10/2007	Wu	D8/27
D553,457	S *	10/2007	Hsieh	D8/27
D603,669	S *	11/2009	Hsu	D8/28
8,347,764	B2 *	1/2013	Tuan-Mu et al.	81/179
8,359,952	B2	1/2013	Hsieh	
D686,473	S	7/2013	Nam	
2015/0135910	A1	5/2015	Eggert et al.	

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,273,430	A	9/1966	Knudsen et al.	
3,908,488	A	9/1975	Andersen	
4,512,220	A	4/1985	Barnhill, III et al.	
4,776,244	A *	10/1988	Olson et al.	81/119
4,930,378	A	6/1990	Colvin	
5,074,171	A	12/1991	Annis et al.	
5,092,203	A	3/1992	Mader et al.	
5,131,312	A *	7/1992	Macor	81/119
5,148,726	A	9/1992	Huebschen et al.	
5,406,868	A	4/1995	Foster	
5,476,024	A	12/1995	Hsieh	
5,860,339	A *	1/1999	Mikic et al.	81/186
D409,061	S	5/1999	Hsieh	
D412,819	S *	8/1999	Macor	D8/28
5,996,449	A *	12/1999	Hsieh	81/186

FOREIGN PATENT DOCUMENTS

DE	19738079	3/1999
EP	0156681	10/1985
FR	2703619	10/1994

(Continued)

Primary Examiner — Randall Gholson

(74) *Attorney, Agent, or Firm* — Greenberg Traurig, LLP

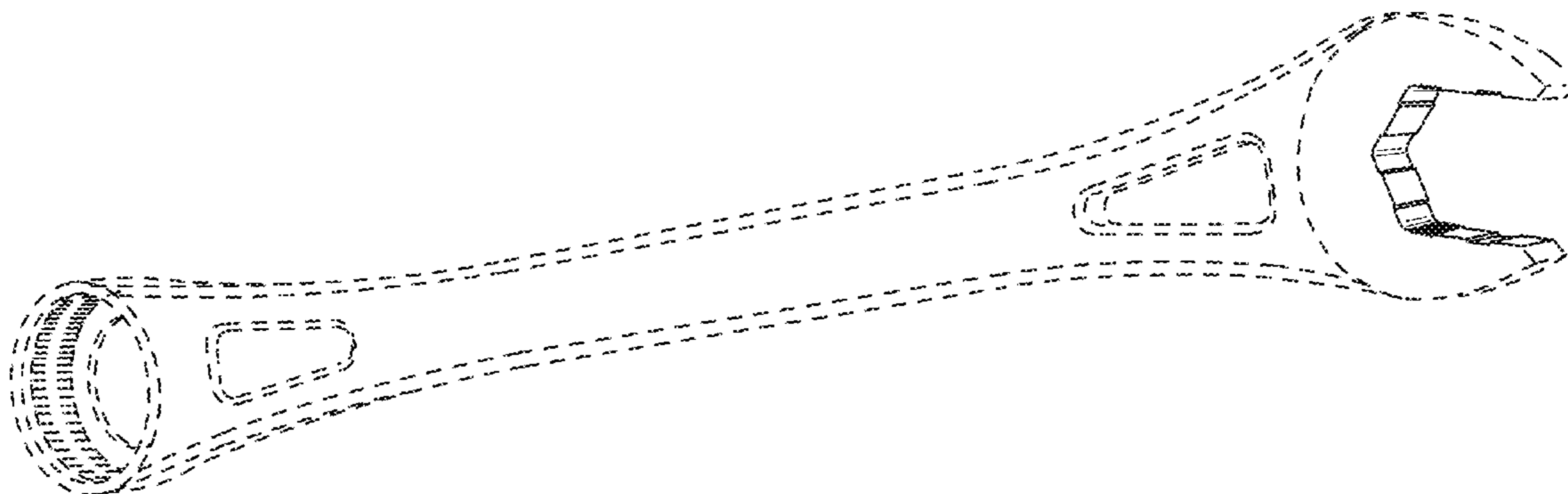
(57) **CLAIM**

The ornamental design for an open end of a wrench head, as shown and described.

DESCRIPTION

FIG. 1 is a top front perspective view of an open end of a wrench head showing the new design; FIG. 2 is an enlarged top front perspective view thereof; FIG. 3 is an enlarged top plan view thereof; and, FIG. 4 is an enlarged front elevational view thereof. The broken lines depict portions of the open end of a wrench head that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



US D749,385 S

Page 2

(56)	References Cited			
		JP	2010253577	11/2010
		JP	2011104665	6/2011
		WO	0132365	5/2001
	FOREIGN PATENT DOCUMENTS	WO	2013145697	10/2013
GB	508761	7/1939		* cited by examiner

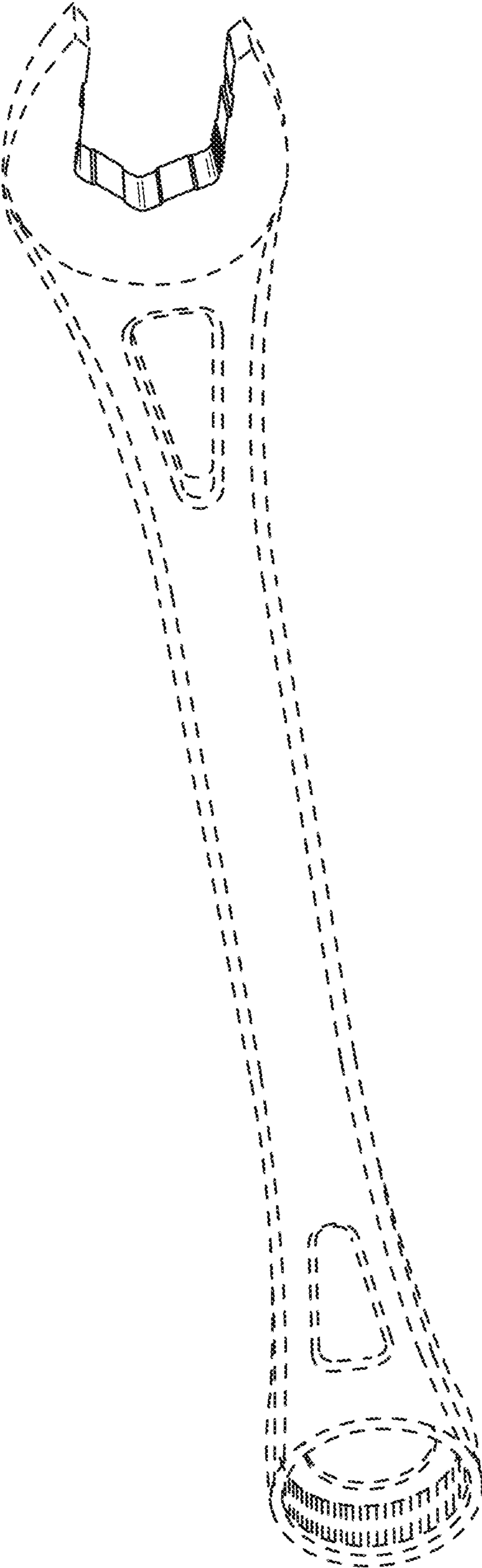


FIG. 1

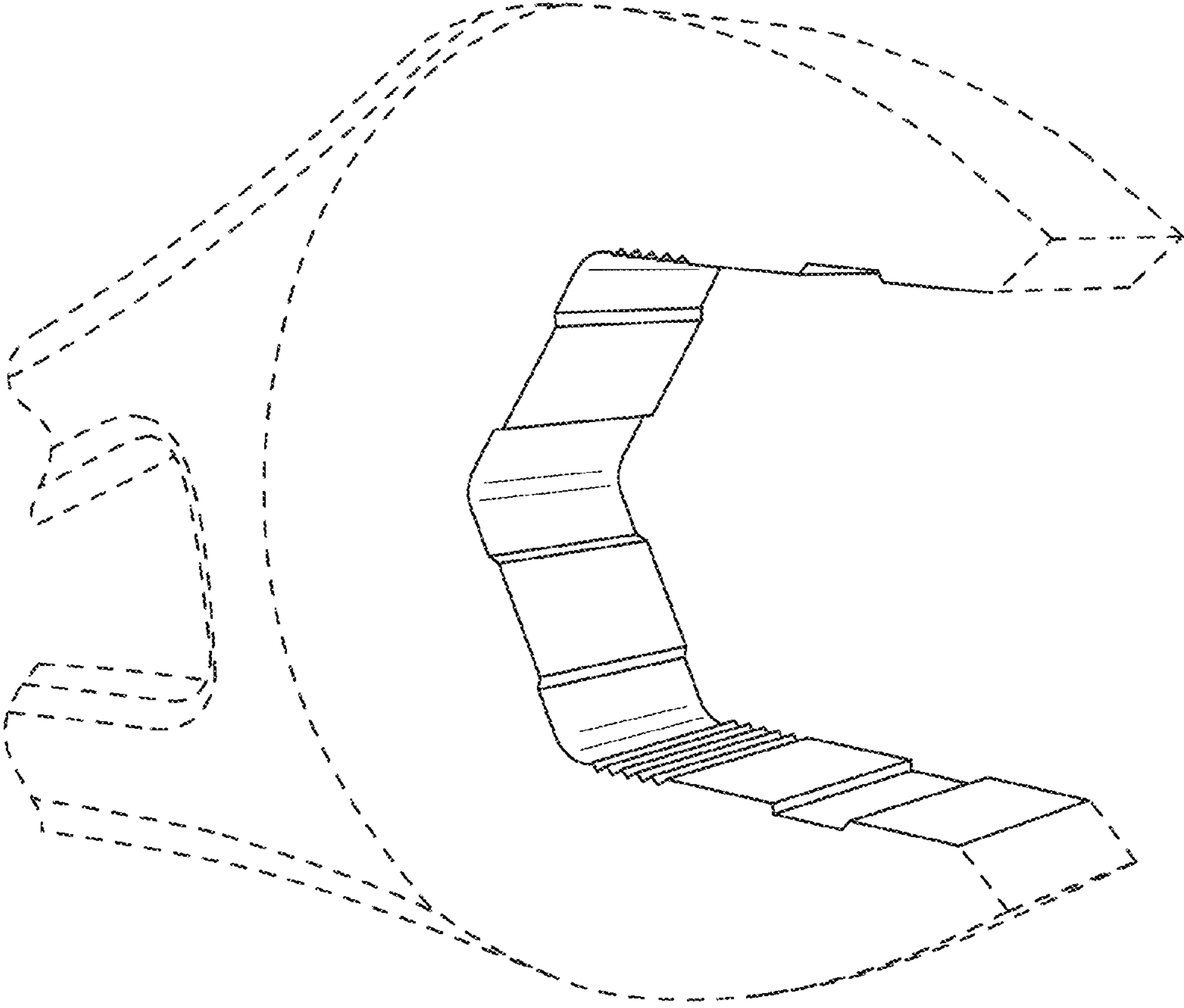


FIG. 2

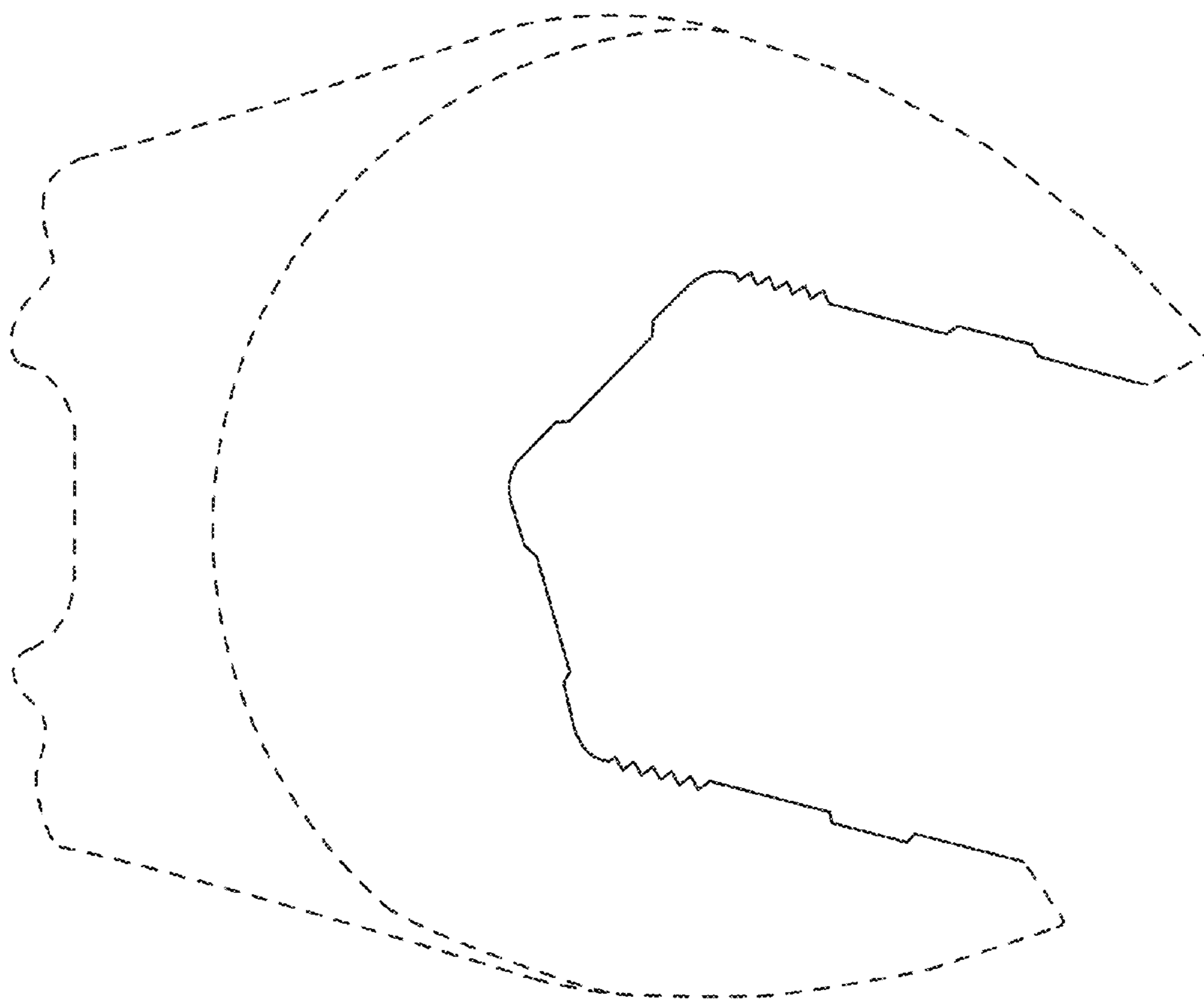


FIG. 3

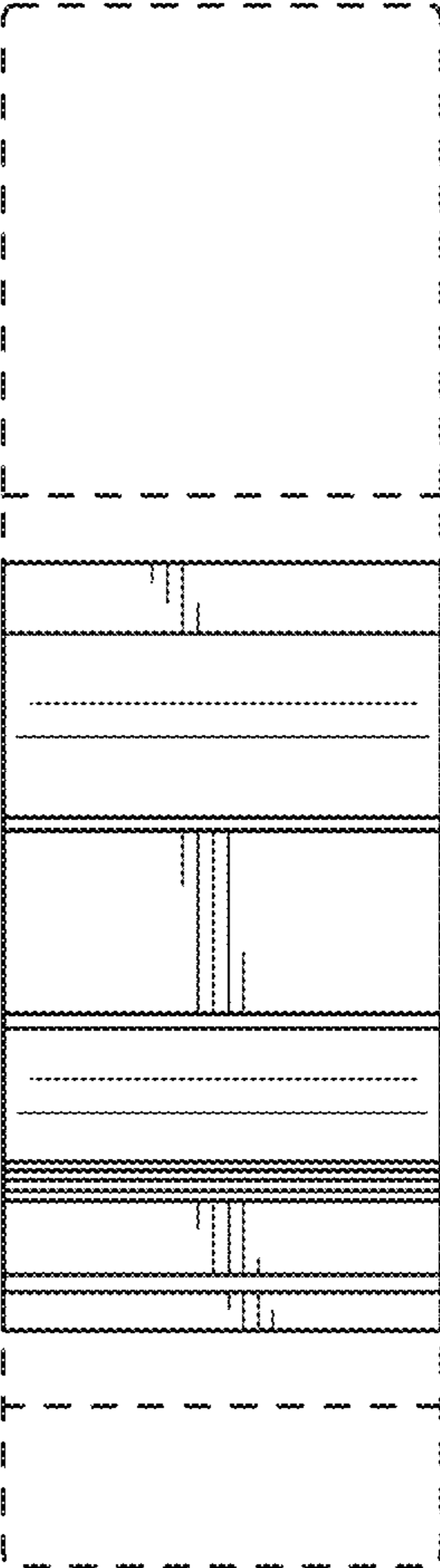


FIG. 4