



US00D868113S

(12) **United States Design Patent** (10) **Patent No.:** **US D868,113 S**
Trudeau (45) **Date of Patent:** **** Nov. 26, 2019**

(54) **INTEGRATED SUPERCHARGER AND CHARGE-AIR COOLER SYSTEM**

(71) Applicant: **Eaton Corporation**, Cleveland, OH (US)

(72) Inventor: **Jon Paul Trudeau**, Battle Creek, MI (US)

(73) Assignee: **Eaton Intelligent Power Limited**, Dublin (IE)

(**) Term: **15 Years**

(21) Appl. No.: **29/568,103**

(22) Filed: **Jun. 15, 2016**

Related U.S. Application Data

(62) Division of application No. 29/438,753, filed on Dec. 3, 2012, now Pat. No. Des. 762,246.

(51) **LOC (12) Cl.** **15-01**

(52) **U.S. Cl.**
USPC **D15/5**

(58) **Field of Classification Search**
USPC D15/1-6; 123/559.1, 563; 415/17.4, 415/319, 139, 201.1, 206.1; 60/599, 611
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,075,991	A	2/1978	Menig et al.	
D255,353	S	6/1980	Ullrich	
6,758,661	B1*	7/2004	Thelen	F02B 33/38 418/206.1
6,837,195	B2	1/2005	Suwazono	
7,137,384	B1	11/2006	Kavadeles	
7,604,467	B2	10/2009	Prior	
7,726,286	B2	6/2010	Prior, II et al.	

7,845,921	B2	12/2010	Prior	
8,813,492	B2	8/2014	Hansen et al.	
D718,043	S *	11/2014	Hamburger	D3/5
D762,246	S	7/2016	Trudeau	
2004/0208770	A1	10/2004	Prior	
2008/0060622	A1	3/2008	Prior	
2008/0168961	A1*	7/2008	Prior	F02M 35/104 123/184.57
2008/0175739	A1	7/2008	Prior	
2008/0271719	A1*	11/2008	Prior	F02B 33/40 123/559.1
2008/0292452	A1	11/2008	Prior et al.	
2009/0211244	A1	8/2009	Wegner et al.	
2009/0232689	A1	9/2009	Prior	
2011/0150671	A1	6/2011	Ouwenga	

(Continued)

Primary Examiner — T Chase Nelson

Assistant Examiner — Ania Aman

(74) *Attorney, Agent, or Firm* — Merchant & Gould P.C.

(57) **CLAIM**

The ornamental design for an integrated supercharger and charge-air cooler system, as shown and described herein.

DESCRIPTION

FIG. 1 is a top right perspective view of an integrated supercharger and charge cooler system showing my new design.

FIG. 2 is a bottom left rear perspective view.

FIG. 3 is a top view.

FIG. 4 is a bottom view.

FIG. 5 is a front view.

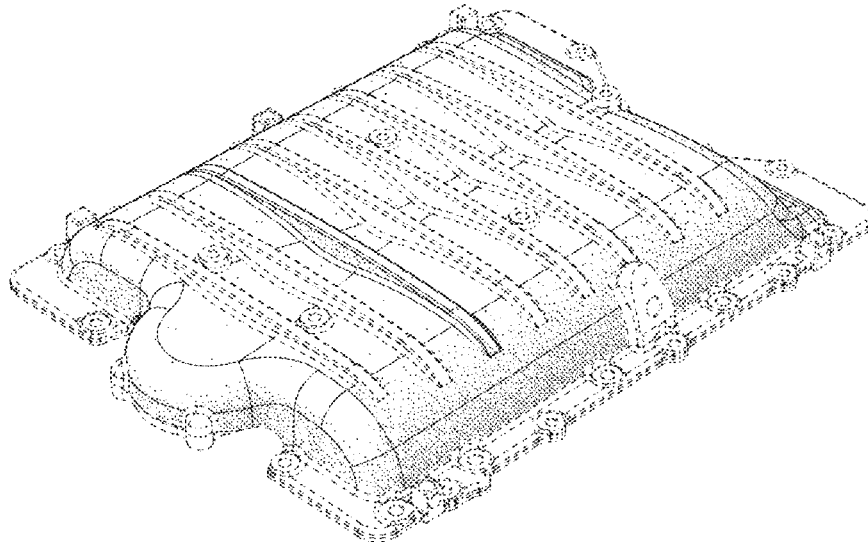
FIG. 6 is a rear view.

FIG. 7 is a right side view; and,

FIG. 8 a left side view.

The broken lines showing portions of the integrated supercharger and charge-air cooler system form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0017101	A1	1/2014	Staley	
2014/0193285	A1	7/2014	Swartzlander	
2014/0224230	A1	8/2014	Simons et al.	
2015/0252719	A1*	9/2015	Pryor	F04C 18/16 92/177
2016/0003249	A1*	1/2016	Ouwenga	F04C 27/005 418/1
2017/0022991	A1*	1/2017	Orzechowski	F01C 21/10
2017/0218891	A1*	8/2017	Zoner	F02B 33/36

* cited by examiner

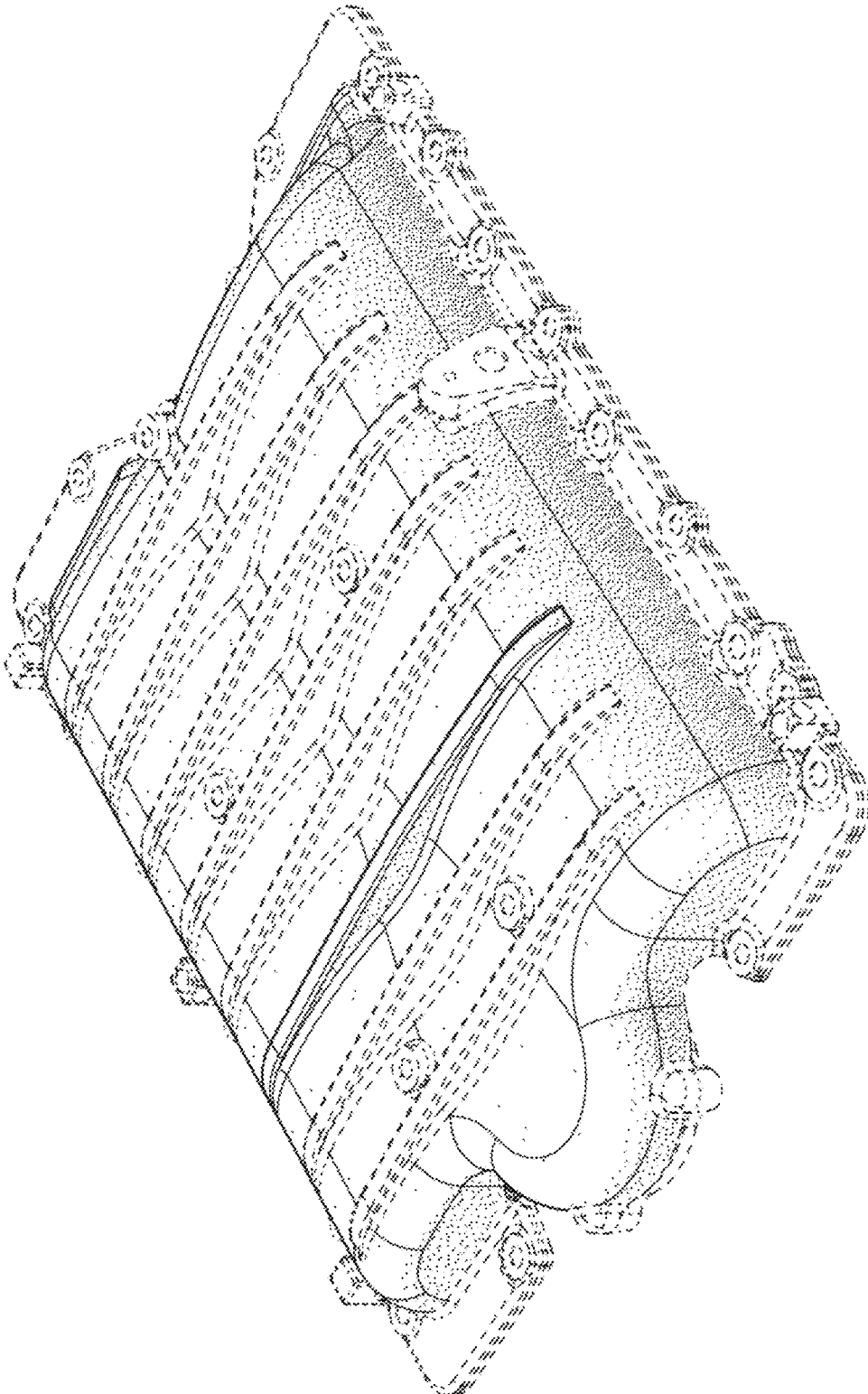


FIG. 1

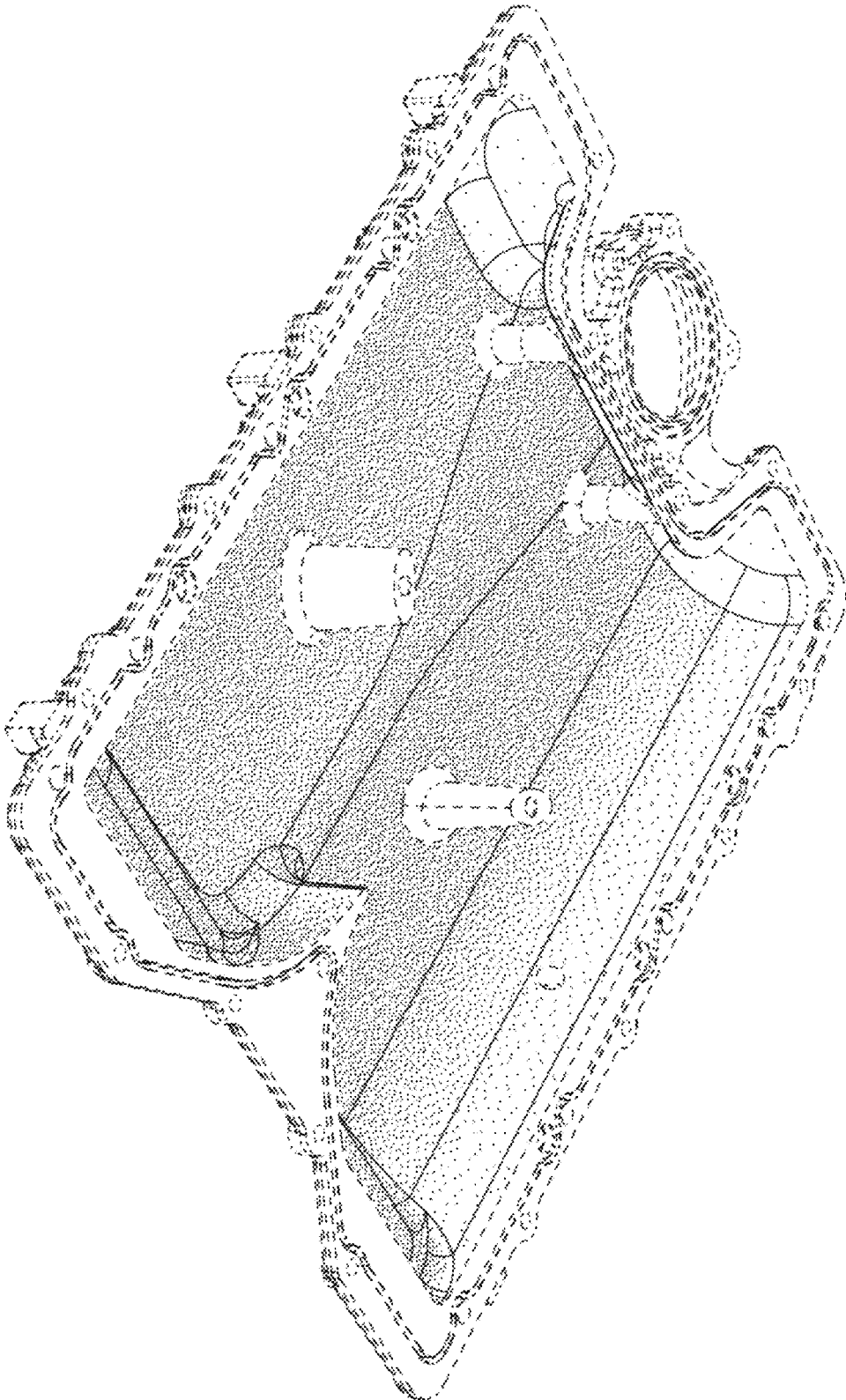


FIG. 2

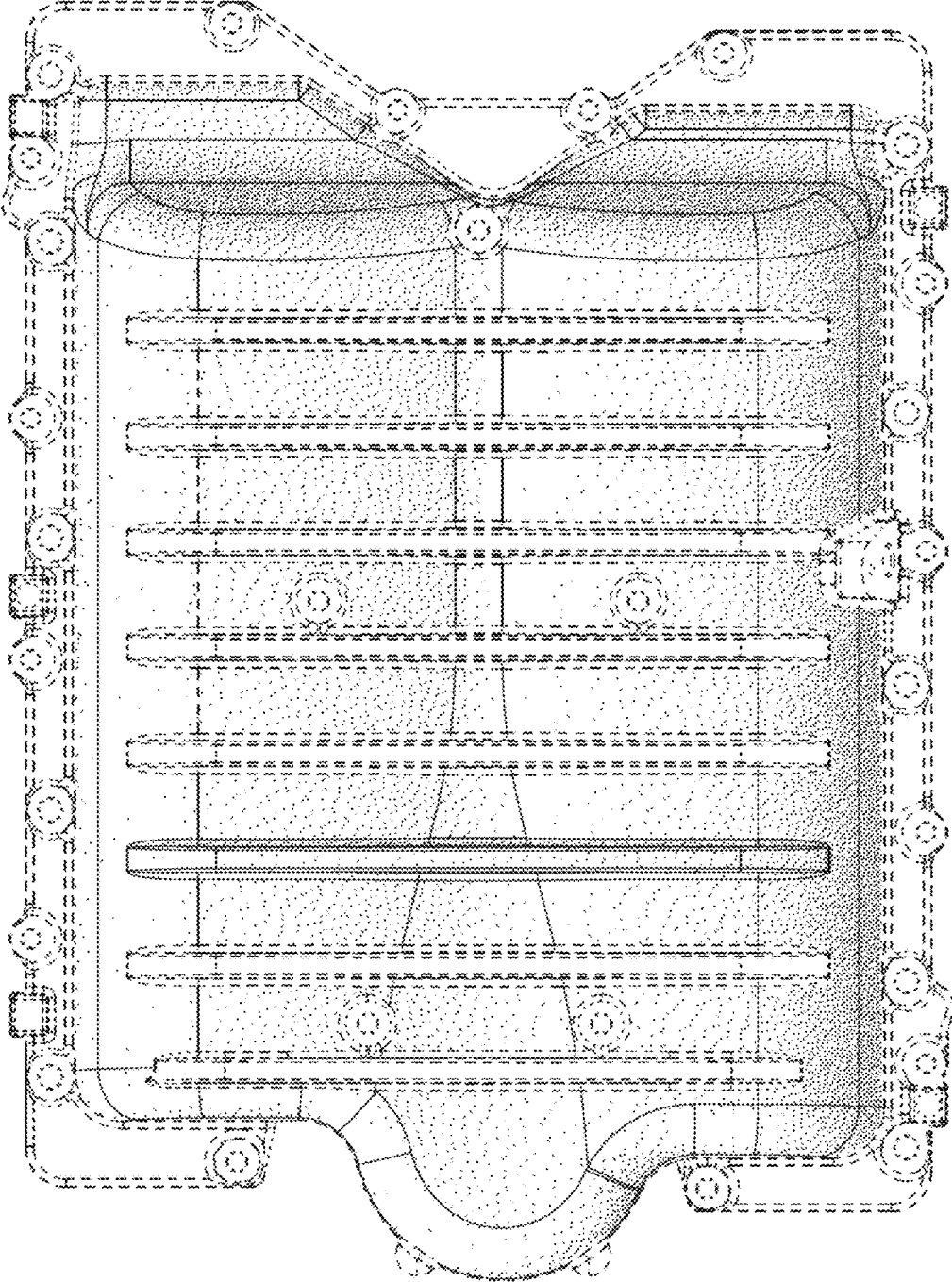


FIG. 3

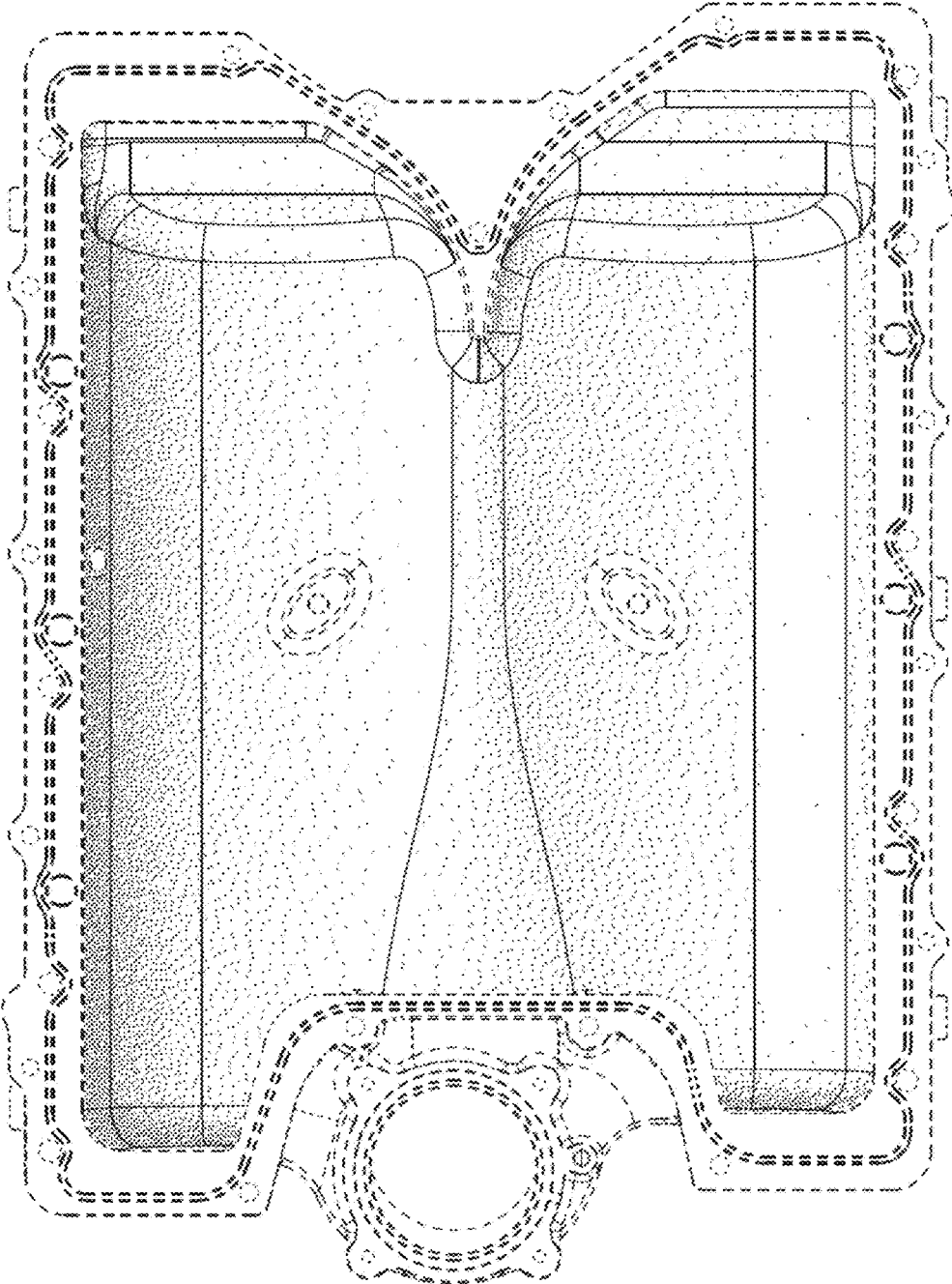


FIG.4

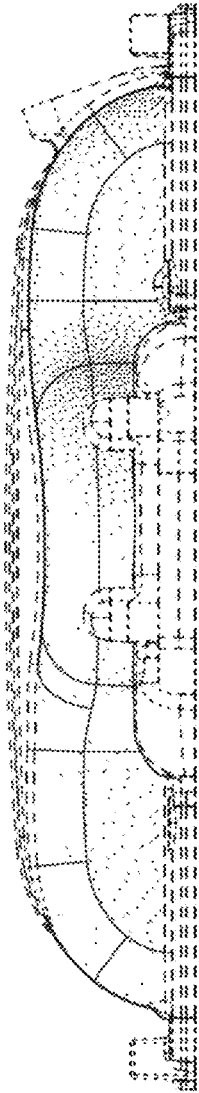


FIG. 5

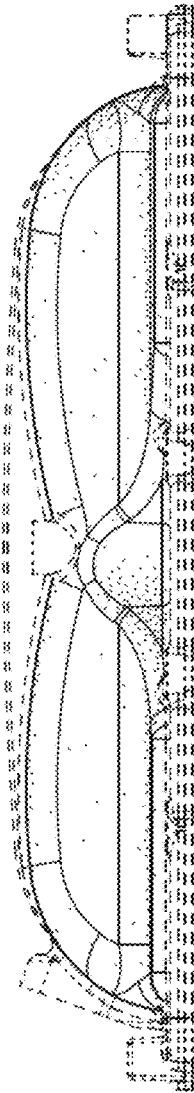


FIG. 6

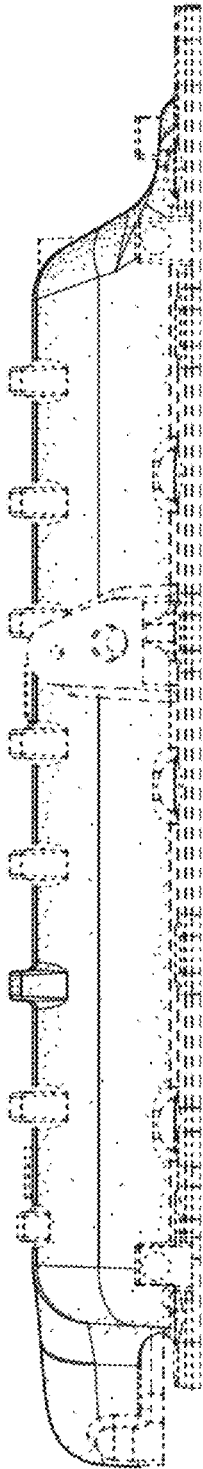


FIG. 7

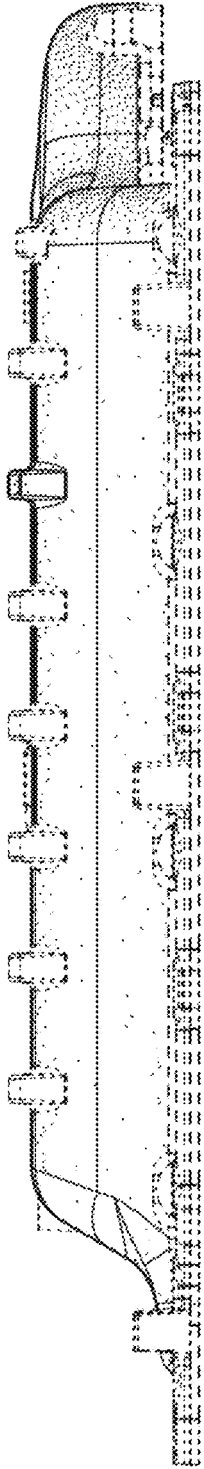


FIG. 8