

(12) **United States Design Patent** (10) **Patent No.:** **US D529,439 S**
Glasgow et al. (45) **Date of Patent:** **** Oct. 3, 2006**

(54) **BATTERY CHARGER**

(75) Inventors: **Kevin L. Glasgow**, Lomira, WI (US);
David J. Rozwadowski, Greenfield, WI
(US); **Jeffrey M. Zeiler**, Delafield, WI
(US); **Tom G. Volk**, Germantown, WI
(US); **Scott H. Micoley**, Cedarburg, WI
(US); **Alan Bengtson**, Shorewood, WI
(US)

(73) Assignee: **Milwaukee Electric Tool Corporation**,
Brookfield, WI (US)

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

(21) Appl. No.: **29/200,094**

(22) Filed: **Feb. 24, 2004**

Related U.S. Application Data

(63) Continuation of application No. 29/160,301, filed on May 7,
2002, now Pat. No. Des. 487,059.

(51) **LOC (8) Cl.** **13-02**

(52) **U.S. Cl.** **D13/107**

(58) **Field of Classification Search** D13/107–108,
D13/106, 109–110, 118, 184; D14/251, 253;
320/103–105, 107–115; D12/193; D7/601

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,266,686 A	12/1941	Emanuel	
D160,496 S	* 10/1950	Harmer	D12/193
D213,111 S	* 1/1969	Jaffe	D13/107
D219,774 S	* 1/1971	Cox	D12/193
3,579,075 A	5/1971	Floyd	
4,009,429 A	2/1977	Mullersman	
4,211,968 A	7/1980	Sugalski	
4,229,686 A	10/1980	Mullersman et al.	
4,237,409 A	12/1980	Sugalski	
4,288,733 A	9/1981	Bilanceri et al.	
4,315,364 A	2/1982	Leffingwell	
D274,807 S	* 7/1984	Stansbury et al.	D12/193
D281,490 S	* 11/1985	Lien	D12/193

4,639,655 A	1/1987	Westhaver et al.	
4,641,076 A	2/1987	Linden	
4,641,077 A	2/1987	Pascaloff	
D294,975 S	* 3/1988	Lester	D26/34
D306,594 S	* 3/1990	Taylor	D14/253
D311,897 S	* 11/1990	Moore et al.	D13/107
D312,462 S	* 11/1990	Lyons et al.	D14/252
4,997,731 A	3/1991	Machida et al.	
5,028,859 A	7/1991	Johnson et al.	
D318,984 S	* 8/1991	Wickham et al.	D7/601
5,039,929 A	8/1991	Veistroffer et al.	
5,144,217 A	9/1992	Gardner et al.	
D330,187 S	* 10/1992	Shimoo et al.	D13/107
D333,119 S	* 2/1993	Russell	D12/193
5,191,276 A	3/1993	Zainaleain	
D340,908 S	* 11/1993	Tortola	D13/110
D348,037 S	* 6/1994	Hu	D12/193

(Continued)

Primary Examiner—Alan P. Douglas

Assistant Examiner—Rosemary K. Tarcza

(74) *Attorney, Agent, or Firm*—Michael Best & Friedrich
LLP

(57)

CLAIM

We claim the ornamental design for a battery charger, as
shown and described in the figures.

DESCRIPTION

FIG. 1 is a front view of a battery charger.

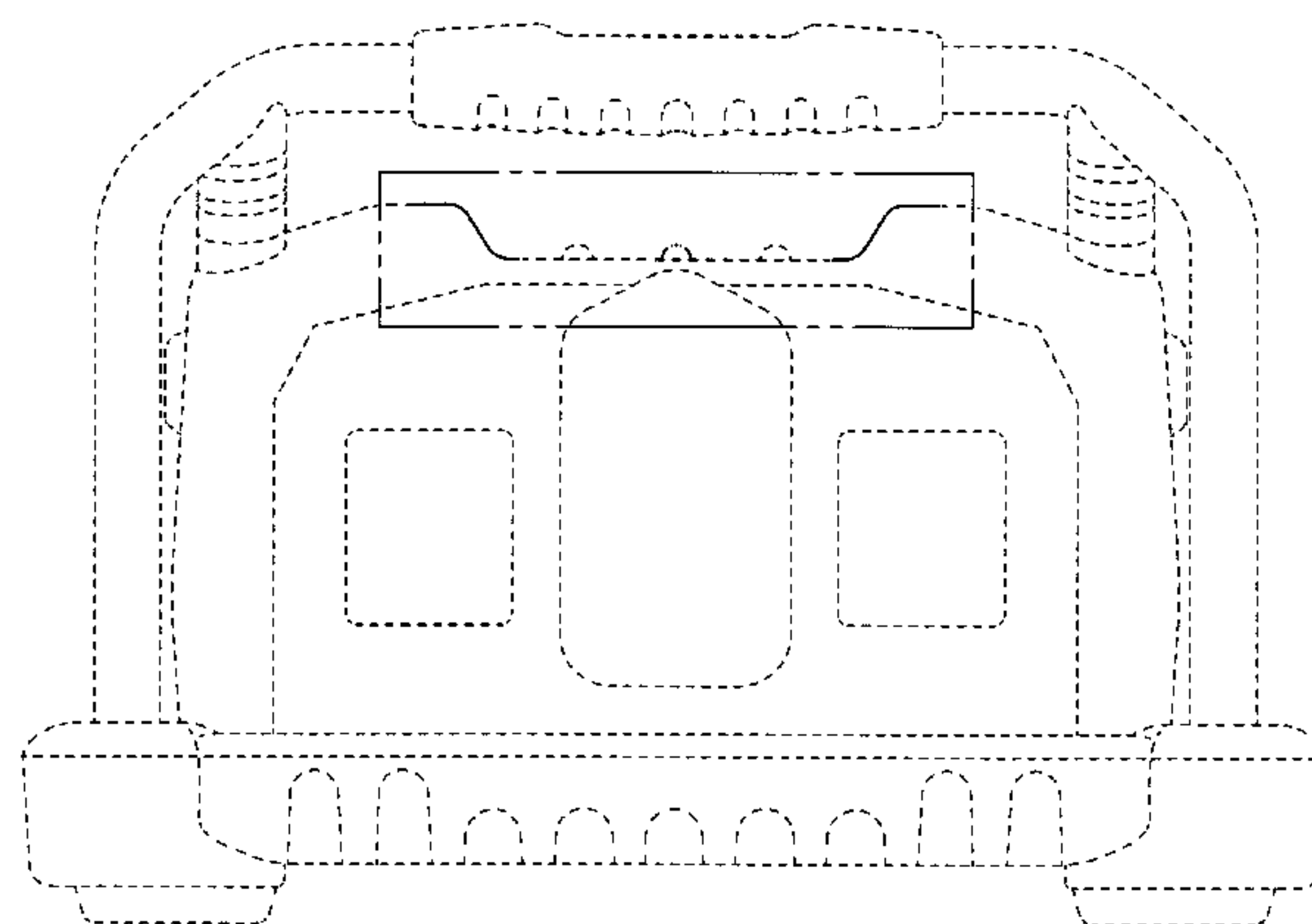
FIG. 1A is an enlarged detail view of a portion of the battery
charger shown in FIG. 1; and,

FIG. 2 is a rear view of the battery charger shown in FIG.
1.

FIG. 3 is an enlarged top perspective view of a portion of the
battery charger shown in FIG. 1.

The present application is directed to the shape and contour
of the design illustrated in the drawings. A portion of a
housing and a portion of an indicator of the battery charger
are illustrated in solid lines. The broken line showing of the
environment is for illustrative purposes only and forms no
part of the claimed design. The broken lines which define the
boundaries of the claimed design form no part thereof.

1 Claim, 4 Drawing Sheets



U.S. PATENT DOCUMENTS							
D348,461	S	7/1994	Peersmann		5,959,434	A	9/1999 Park et al.
D348,865	S	* 7/1994	Nagata	D12/193	D418,836	S	1/2000 Matt et al.
5,391,972	A	2/1995	Gardner et al.		D420,324	S	* 2/2000 Wan D13/107
5,486,749	A	1/1996	Brainard		D424,515	S	5/2000 Sage
5,525,888	A	6/1996	Toya		D429,482	S	* 8/2000 Hussaini et al. D13/107
5,539,297	A	7/1996	Fiebig		D446,854	S	* 8/2001 Cheney et al. D24/111
5,621,301	A	4/1997	Allen et al.		6,308,059	B1	10/2001 Domes
5,640,078	A	6/1997	Kou et al.		6,346,793	B1	2/2002 Shibata et al.
5,684,384	A	11/1997	Barkat et al.		6,427,070	B1	7/2002 Smith
5,717,309	A	2/1998	Cho		6,456,837	B1	9/2002 Domes
5,734,253	A	3/1998	Brake et al.		D474,175	S	5/2003 Furusho et al.
5,747,964	A	5/1998	Turnbull		D474,176	S	5/2003 Furusho et al.
5,757,163	A	5/1998	Brotto et al.		D474,177	S	5/2003 Furusho et al.
D395,897	S	* 7/1998	Honma et al.	D14/240	D474,738	S	* 5/2003 Ishii et al. D13/110
5,780,991	A	7/1998	Brake et al.		D479,223	S	9/2003 Furusho et al.
D403,662	S	* 1/1999	Caldes et al.	D13/110	2003/0090234	A1	5/2003 Glasgow et al.
D405,766	S	* 2/1999	Hartel et al.	D13/184	* cited by examiner		

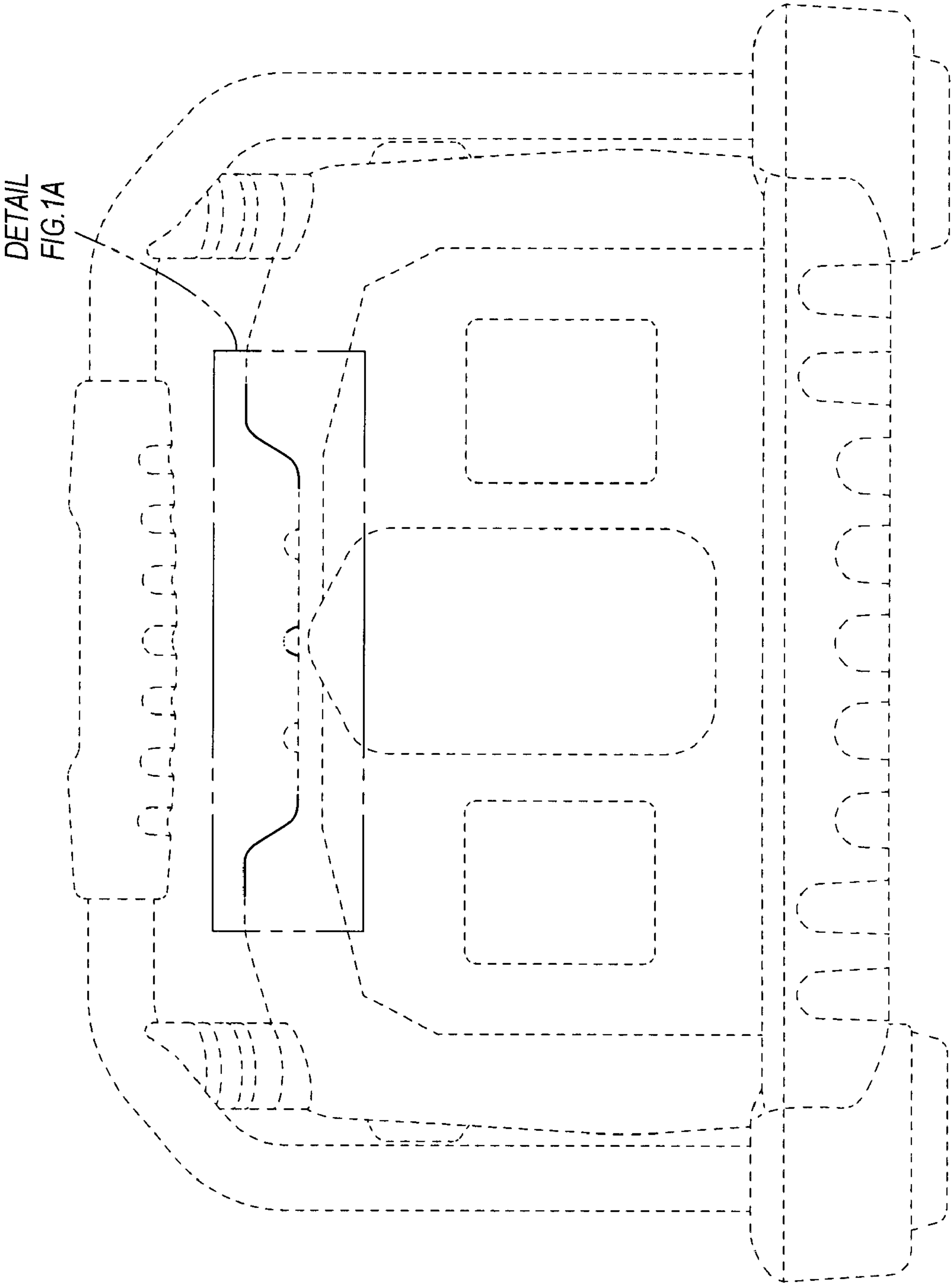


FIG. 1

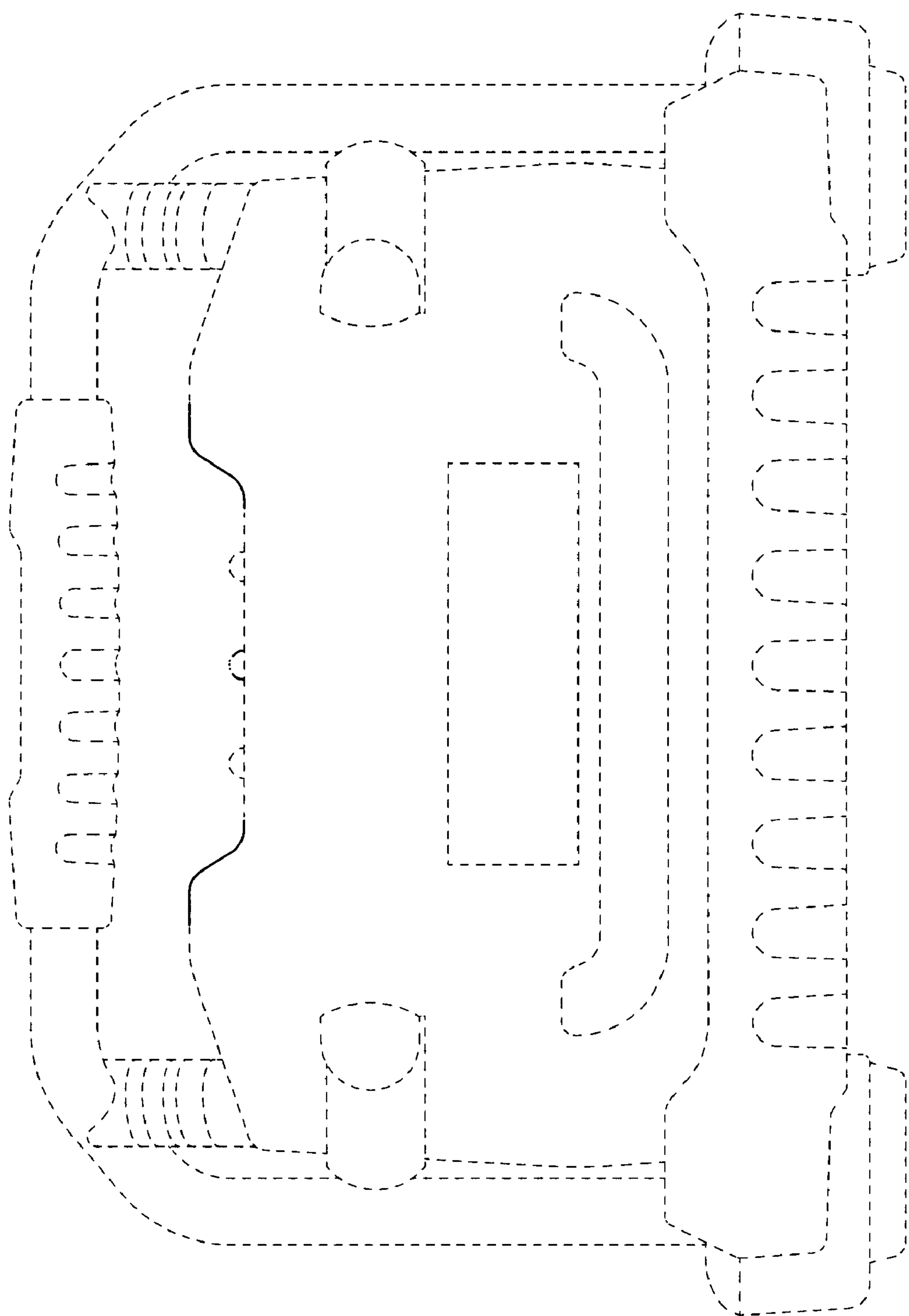


FIG. 2

