



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

(10) **Patent No.:** **US D960,010 S**
(45) **Date of Patent:** **** Aug. 9, 2022**

(54) **VALVE CONTROLLER**

(56) **References Cited**

(71) Applicant: **Pentair Residential Filtration, LLC**,
Brookfield, WI (US)

U.S. PATENT DOCUMENTS

(72) Inventors: **Andrew Lindgren**, Wauwatosa, WI
(US); **Andrew Mansfield**, Brookfield,
WI (US)

D287,486 S 12/1986 Points et al.
D344,901 S * 3/1994 Conforti D10/50
(Continued)

(73) Assignee: **PENTAIR RESIDENTIAL
FILTRATION, LLC**, Brookfield, WI
(US)

FOREIGN PATENT DOCUMENTS

CN 302910837 S 8/2014
CN 303020831 S 12/2014
(Continued)

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

Primary Examiner — Antoine Duval Davis
(74) *Attorney, Agent, or Firm* — Husch Blackwell LLP

(21) Appl. No.: **29/751,194**

(22) Filed: **Sep. 18, 2020**

(57) **CLAIM**

The ornamental design for a valve controller, as shown and described.

Related U.S. Application Data

(62) Division of application No. 29/672,288, filed on Dec. 4, 2018, now Pat. No. Des. 904,906.

DESCRIPTION

(51) **LOC (13) CL.** **10-04**
(52) **U.S. CL.**

USPC **D10/103**; D13/162.1

(58) **Field of Classification Search**

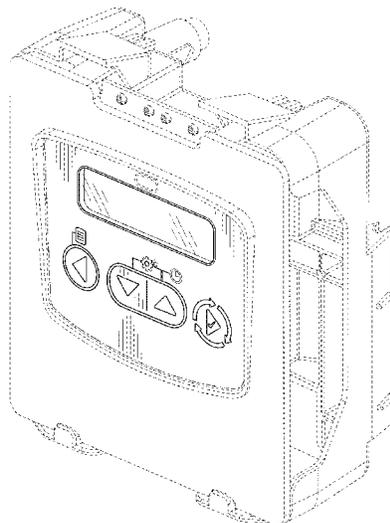
USPC D10/46, 49, 102, 103; D13/158, 162,
D13/162.1, 164, 177, 184, 185; D23/270
CPC F16K 25/00; F16K 25/005; F16K 25/02;
F16K 25/04; F16K 27/00; F16K 27/003;
F16K 27/006; F16K 27/02; F16K
27/0209; F16K 27/0218; F16K 27/0227;
F16K 27/0236; F16K 27/0245; F16K
27/0254; F16K 27/0263; F16K 27/0272;
F16K 27/0281; F16K 27/029; F16K
27/04; F16K 27/041; F16K 27/042; F16K
27/044; F16K 27/045; F16K 27/047;
F16K 27/048; F16K 27/062; F16K
27/065; F16K 27/067; F16K 27/07; F16K
27/08; F16K 27/10; F16K 27/102; F16K
27/105; F16K 27/107; F16K

(Continued)

FIG. 1 is an isometric view of a front, top, and right side of an ornamental design for a portion of valve controller; FIG. 2 is a front elevational view of the portion of the valve controller of FIG. 1; FIG. 3 is a rear elevational view of the portion of the valve controller of FIG. 1; FIG. 4 is a right side elevational view of the portion of the valve controller of FIG. 1; FIG. 5 is a left side elevational view of the portion of the valve controller of FIG. 1; FIG. 6 is a top plan view of the portion of the valve controller of FIG. 1; and, FIG. 7 is a bottom plan view of the portion of the valve controller of FIG. 1.

The dash-dash-dash lines are included for the purpose of illustrating portions that form no part of the claimed design. The dash-dot-dash lines of FIGS. 1-7 showing boundary lines form no part of the claimed design.

1 Claim, 6 Drawing Sheets



US D960,010 S

Page 2

(58) **Field of Classification Search**

CPC 27/12; F16K 31/04; F16K 11/07; F16K
11/078; F23N 1/005; F23N 5/10; F23N
2900/01002; F23N 2035/16; F16J
15/3404; Y10T 137/87917; Y10T
137/1407; Y10T 137/86549; Y10T
137/86654; Y10T 137/86702; Y10T
137/86646; H01H 89/00-10; H01H
25/00-065; H01H 23/00-30; H01H
13/00-30; H01H 13/64-88; H01H 9/02;
H01H 9/0264; H01H 9/04-047; G06F
11/32-328; G06F 11/34-3495

See application file for complete search history.

D553,097 S 10/2007 Lemke et al.
D553,100 S * 10/2007 Peterson D13/164
D561,114 S * 2/2008 Peterson D13/162
D604,190 S 11/2009 Leer et al.
D636,278 S 4/2011 Franchini
8,104,509 B2 1/2012 Leer et al.
8,133,398 B2 3/2012 King et al.
D674,874 S 1/2013 Mueller et al.
D675,113 S * 1/2013 Droste D10/49
D679,260 S 4/2013 Franchini
D682,715 S 5/2013 Wang
D713,270 S 9/2014 Chandran
D771,575 S 11/2016 Lohbeck et al.
9,758,387 B2 9/2017 Gruett et al.
D881,140 S * 4/2020 Wang D13/162
D898,682 S * 10/2020 Hsieh D13/162
2003/0168389 A1 9/2003 Astle et al.
2012/0199536 A1 8/2012 Dennis et al.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D347,258 S 5/1994 Fenske
D380,737 S 7/1997 Weir et al.
D434,827 S 12/2000 Zimmerman et al.
D485,330 S 1/2004 Shyu
D485,502 S 1/2004 Clivio
6,696,963 B2 2/2004 Zimmerman et al.
D553,096 S 10/2007 Pfingsten et al.

FOREIGN PATENT DOCUMENTS

CN 303795016 S 8/2016
CN 303795087 S 8/2016
CN 304105185 S 4/2017
CN 304112092 S 4/2017
CN 304112093 S 4/2017

* cited by examiner

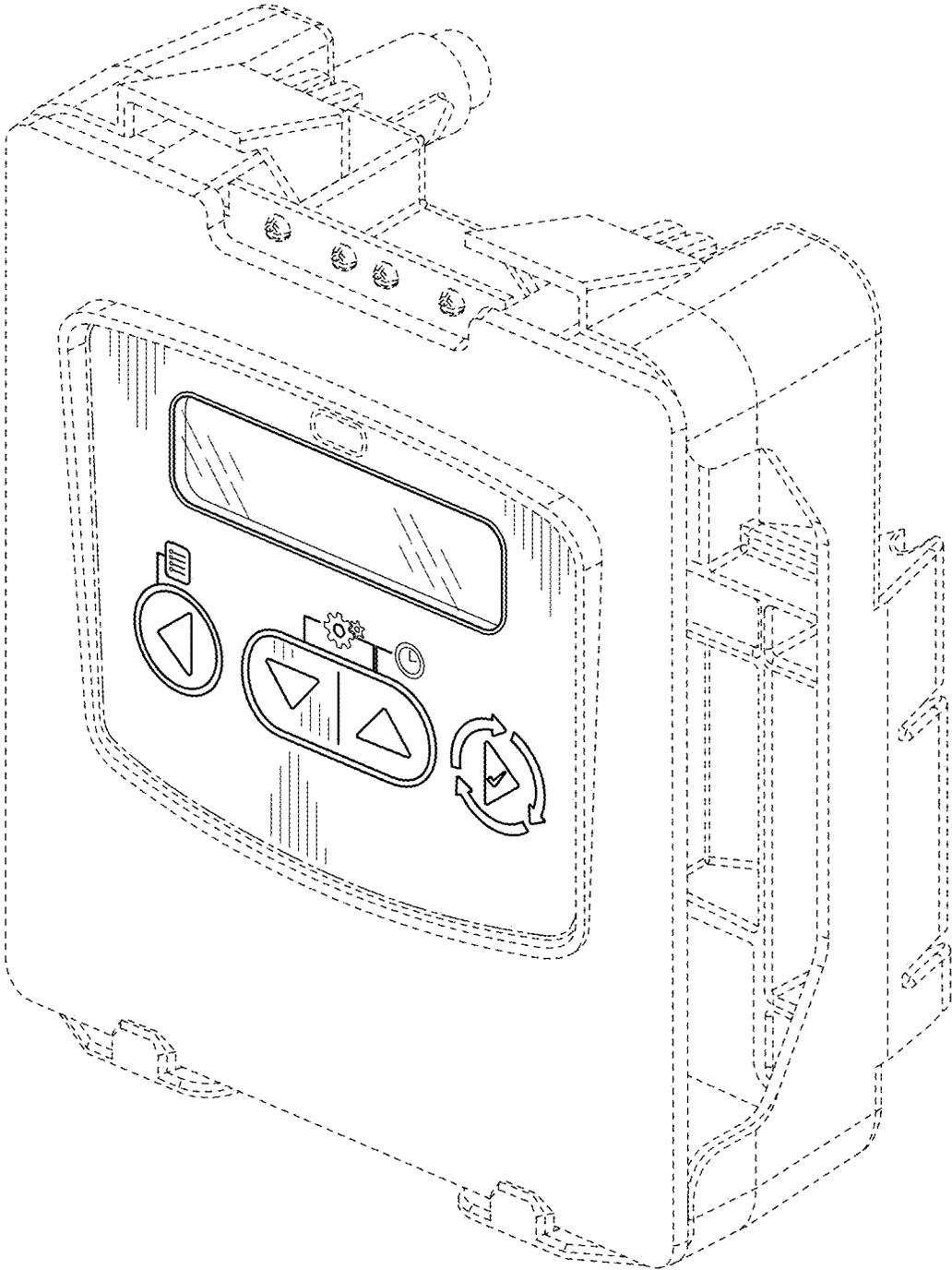


FIG. 1

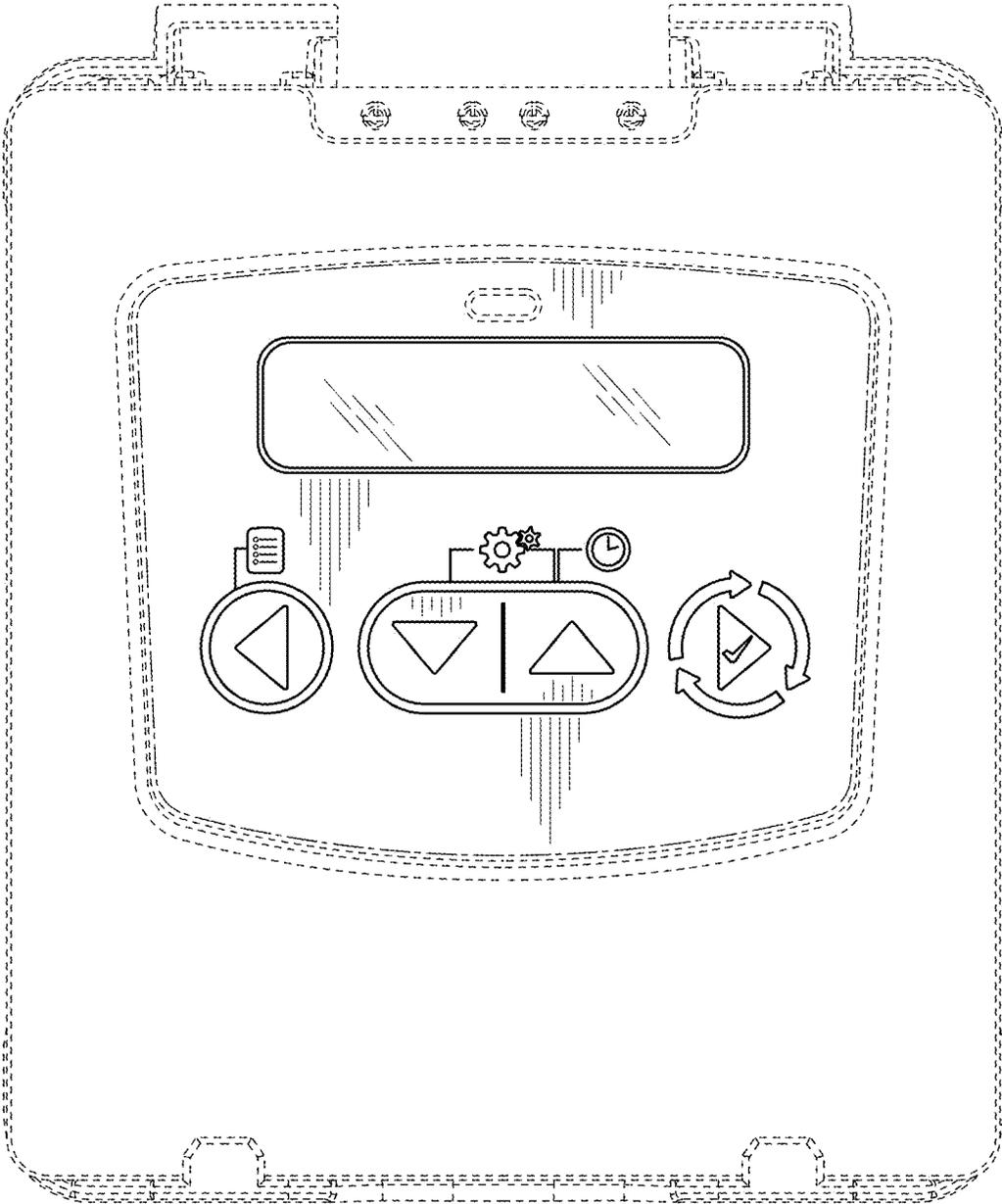


FIG. 2

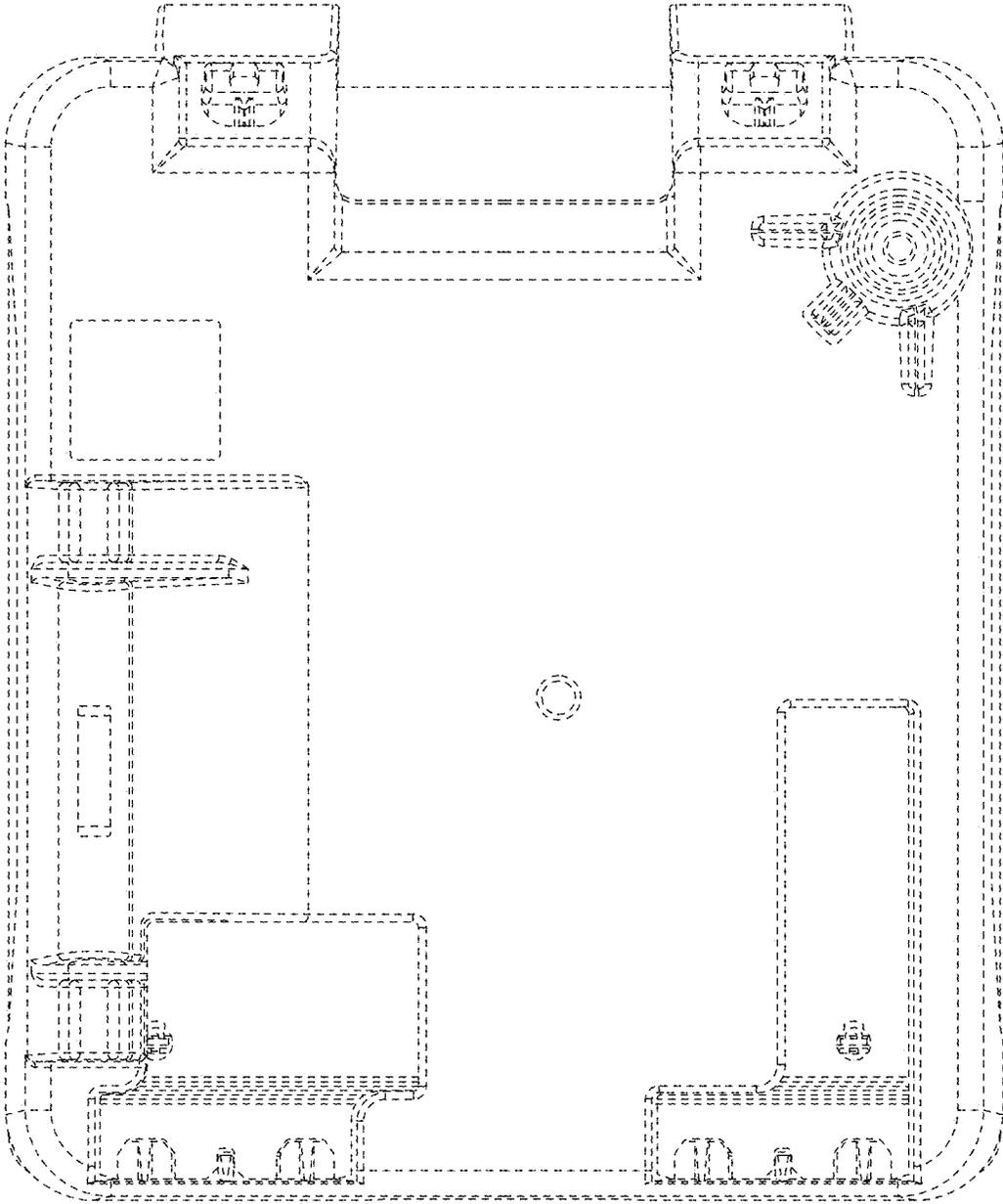


FIG. 3

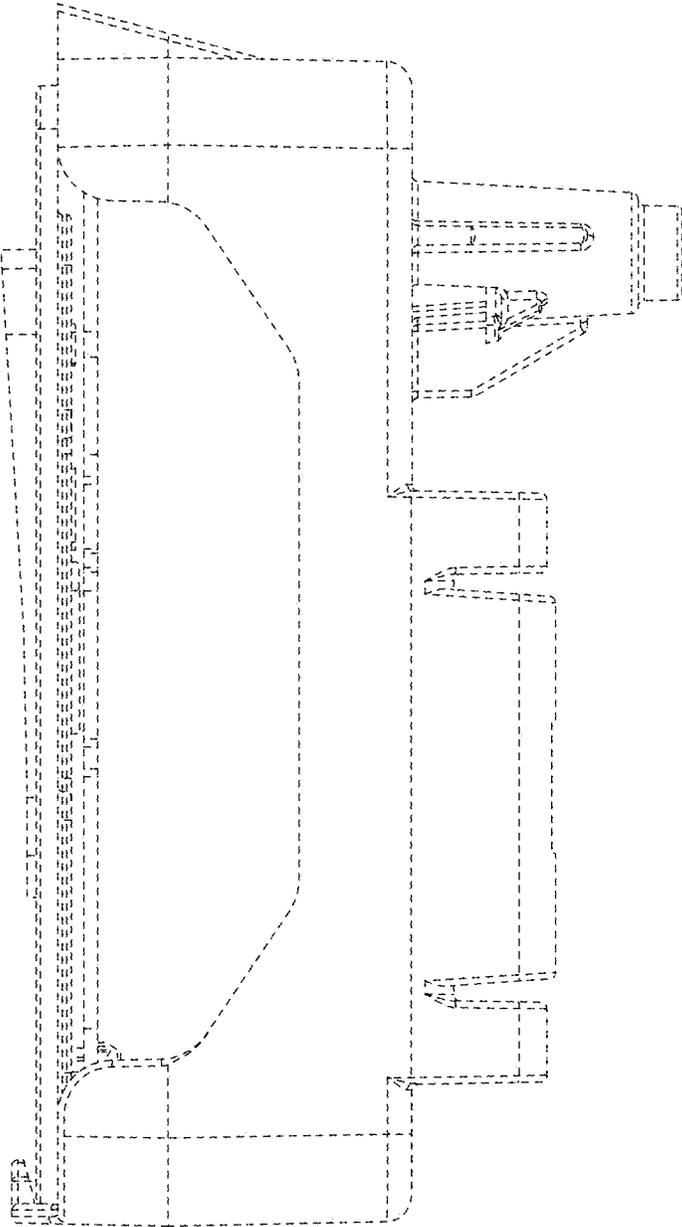


FIG. 4

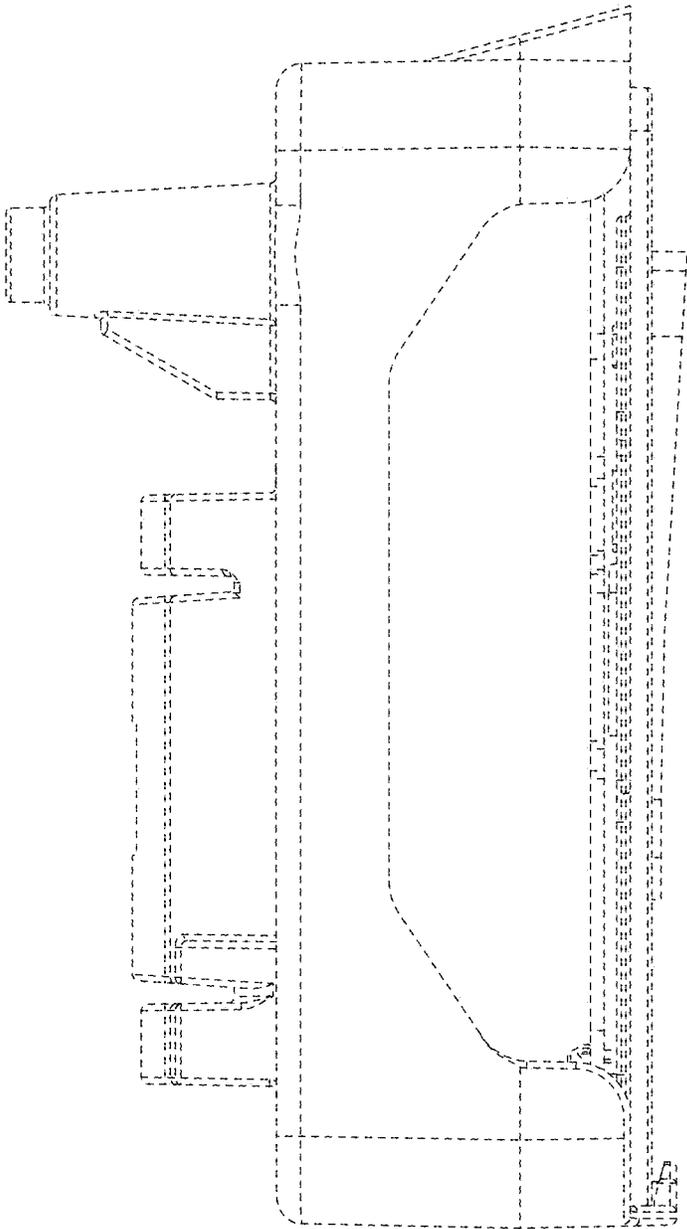


FIG. 5

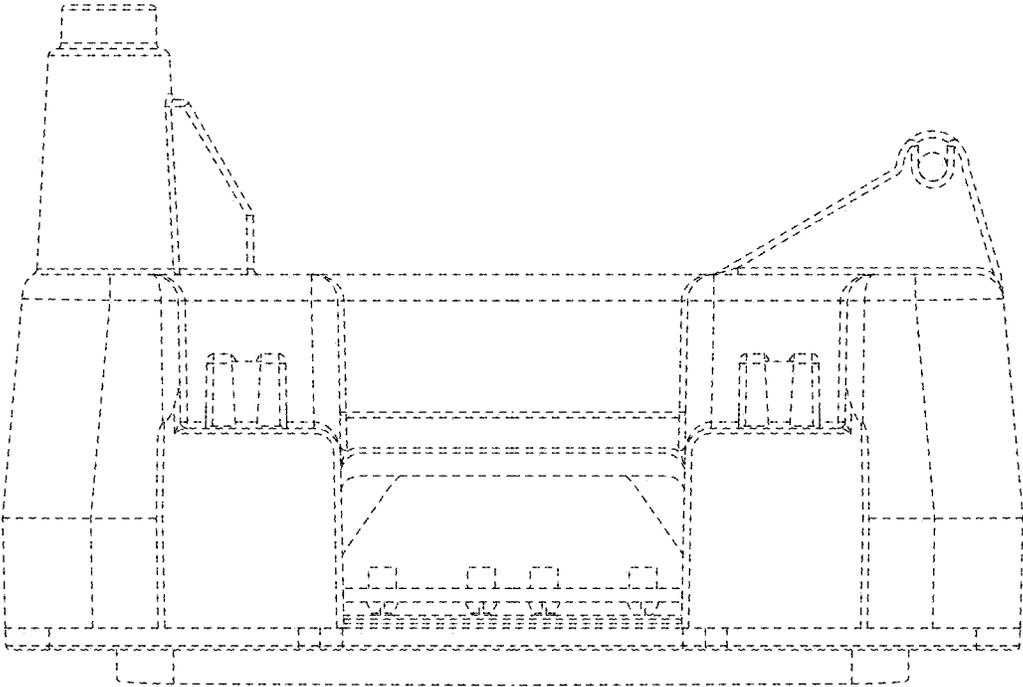


FIG. 6

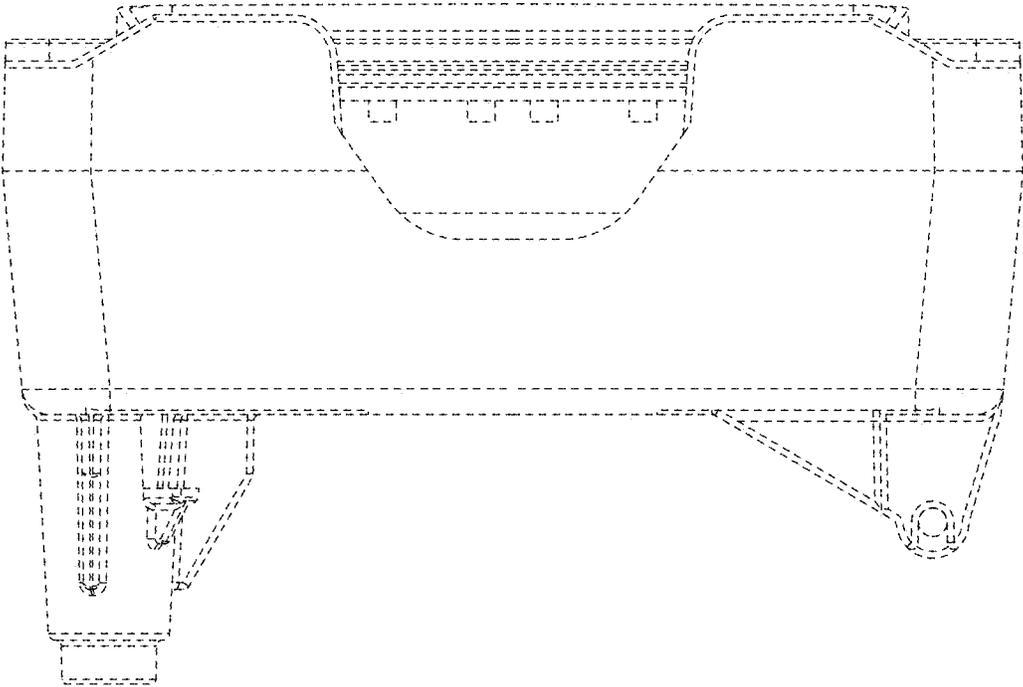


FIG. 7