



US00D627473S

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

(10) **Patent No.:** **US D627,473 S**
(45) **Date of Patent:** **** *Nov. 16, 2010**

(54) **FRAME CONTAINING CERAMIC BLOCK FOR PRODUCING DENTAL CROWNS AND BRIDGES**

2003/0132539 A1 7/2003 Althoff et al.

FOREIGN PATENT DOCUMENTS

(75) Inventors: **Ingo W. Wagner**, Wörthsee (DE);
Martin Goetzinger, Eching a.
Ammersee (DE); **Thomas Sprengart**,
Landsberg (DE)

US 6454568 3/2000
US 2003/0132539 12/2001

OTHER PUBLICATIONS

(73) Assignee: **3M Innovative Properties Company**,
St. Paul, MN (US)

U.S. Appl. No. 29/335,297, Wagner et al.
U.S. Appl. No. 29/335,299, Wagner et al.
Product Literature: 3M ESPE, "Lava®, Der Rohstoff für perfekte Vollkeramik", Scientific Affairs, Mar. 2001, pp. 6.
Product Literature: 3M ESPE, "Lava™ CAD/CAM System für vollkeramische Restaurationen", May 2002, pp. 2.
Product Literature: 3M ESPE, Nbr. 70200948852 / 01 (Apr. 2002), "Lava™ CAD/CAM System für vollkeramische Restaurationen", Apr. 2002, pp. 8.

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

(21) Appl. No.: **29/335,298**

(22) Filed: **Apr. 13, 2009**

(Continued)

(30) **Foreign Application Priority Data**

Oct. 13, 2008 (EM) 1018766-1/3

Primary Examiner—Charles A Rademaker
Assistant Examiner—Charles D Hanson
(74) *Attorney, Agent, or Firm*—Pamela L. Stewart

(51) **LOC (9) Cl.** **24-02**

(52) **U.S. Cl.** **D24/181**

(58) **Field of Classification Search** D24/146,
D24/152, 181; D8/61; 433/126, 80, 82,
433/88, 132, 190, 34, 53, 163; 409/94, 131,
409/84, 105; 264/20

(57) **CLAIM**

See application file for complete search history.

The ornamental design for a frame containing ceramic block for producing dental crowns and bridges, as shown and described.

(56) **References Cited**

DESCRIPTION

U.S. PATENT DOCUMENTS

2,409,783 A * 10/1946 Moskey 264/20
3,495,333 A * 2/1970 Kuhn 433/34
D278,744 S * 5/1985 Miener D24/181
D297,762 S * 9/1988 Ito D24/181
5,135,393 A * 8/1992 Eidenbenz et al. 433/53
5,383,752 A * 1/1995 Rheinberger et al. 409/105
5,647,704 A * 7/1997 Turchan 409/131
5,849,068 A * 12/1998 Hofmann et al. 106/35
6,454,568 B1 9/2002 Beuschel et al.
6,641,340 B1 * 11/2003 Hajjar et al. 409/94
6,769,912 B2 * 8/2004 Beuschel et al. 433/163
6,905,293 B1 * 6/2005 Filser et al. 409/84

FIG. 1 is a perspective view of a frame containing ceramic block for producing dental crowns and bridges;

FIG. 2 is a top view thereof;

FIG. 3 is a bottom view thereof;

FIG. 4 is a side view thereof;

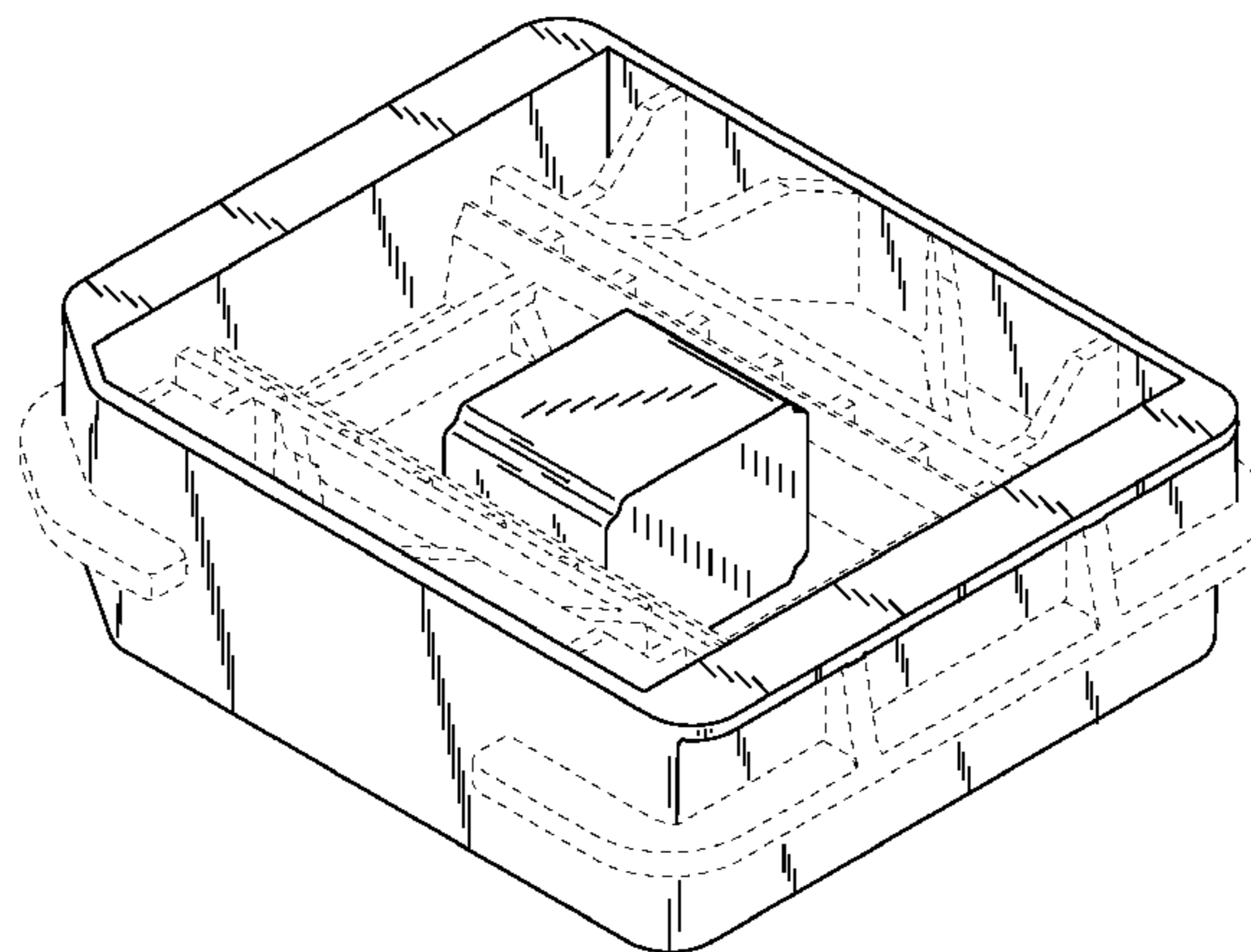
FIG. 5 is a side view thereof;

FIG. 6 is a side view thereof; and,

FIG. 7 is a side view thereof.

The broken lines are included for the purpose of illustrating the environment only and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



OTHER PUBLICATIONS

Product Literature: 3M ESPE, Products 2003/2004, Catalog pp. 98-99.

Product Literature: ESPE Dental AG, "LAVA Prozesskette", (date unknown but believed to be earlier than the effective US filed and any foreign priority date), pp. 1.

Product Literature: HintEls DentaCad Systeme, "Hint-Els® virus", Apr. 15, 2005, pp. 4.

Product Literature: HintEls DentaCAD Systems, "Trade Fair Offerings", Mar. 21, 2007, pp. 2.

Product Literature: IPS e.max, "all ceramic all you need", Mar. 2007, pp. 4.

A Product Literature: KaVo Dental GmbH, "Reaching the peak of CAD/CAM performance", Mar. 21, 2007, pp. 4.

Product Literature: Kayo, "Kavo Everest ® CAD/CAM System, Mit Materialvielfalt an die Spitze.", (date unknown but believed to be earlier than the effective US filed and any foreign priority date), pp. 12.

Product Literature: Kavo, Nbr. 1003.8925 / 111/05, "Kavo Everest® Zirkonkeramik. Für exzellenten Zahnersatz", Apr. 15, 2005, pp. 10.

Product Literature: Schatz Dental GmbH, "Tizian™ CAD/CAM, Zirkon ohne Limit", Mandler Mar. 2007, pp. 3.

Product Literature: Schatz Dental GmbH, "Tizian™ Mill", Mandler Mar. 2007, pp. 5.

Product Literature: Sirona, Dispo-Nr. 04605, 20130506026 WS 03078, "Mit inLab ist Erfolg immer ausbaufähig", Mar. 21, 2002, pp. 4.

Product Literature: Von Etkon, "CAD/CAM von etkon — Die Zahntechnik ist am Ziel.", Apr. 15, 2005, pp. 6.

Product Literature: Wieland Dental Division, Nbr. 530075d.00.02.07, Das Zeno® Tec System, Feb. 2007, pp. 8.

Product Literature: Zirkon Zahn, "The Original", Mar. 2007, pp. 7.

User Newsletter: DeGuDent GmbH, "cercon smart ceramics", vol. 1, 2004, pp. 6.

* cited by examiner

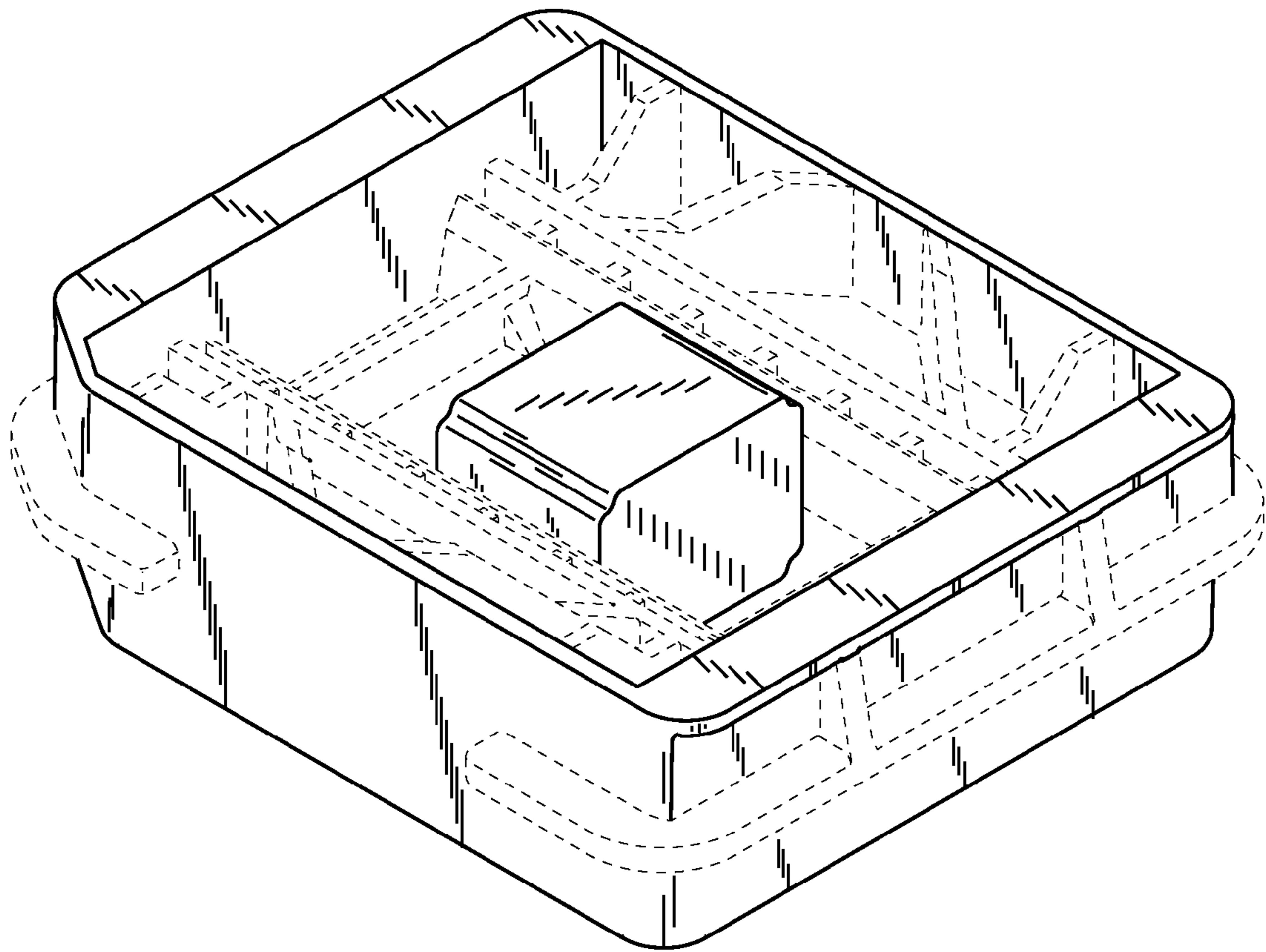


Fig. 1

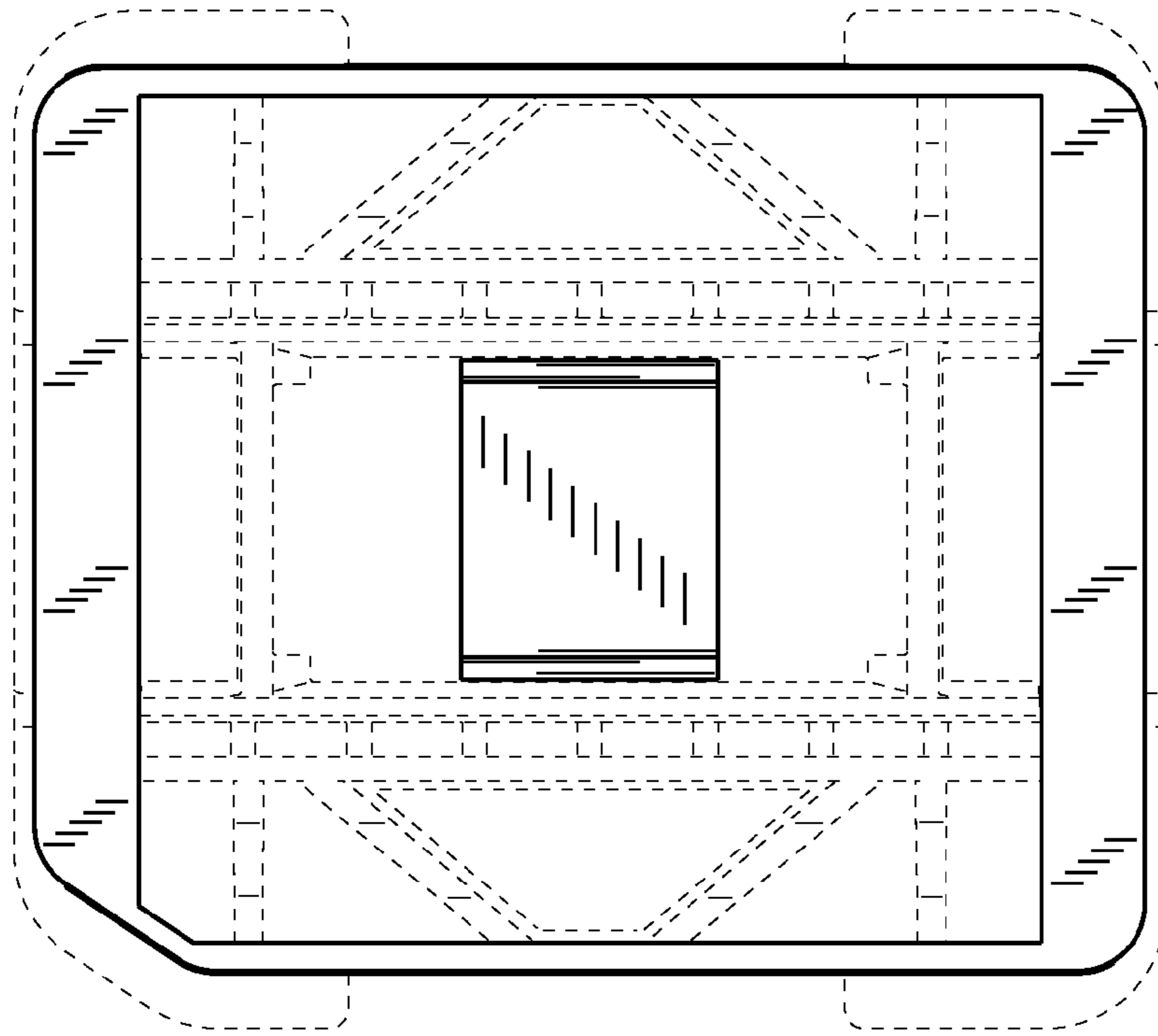


Fig. 2

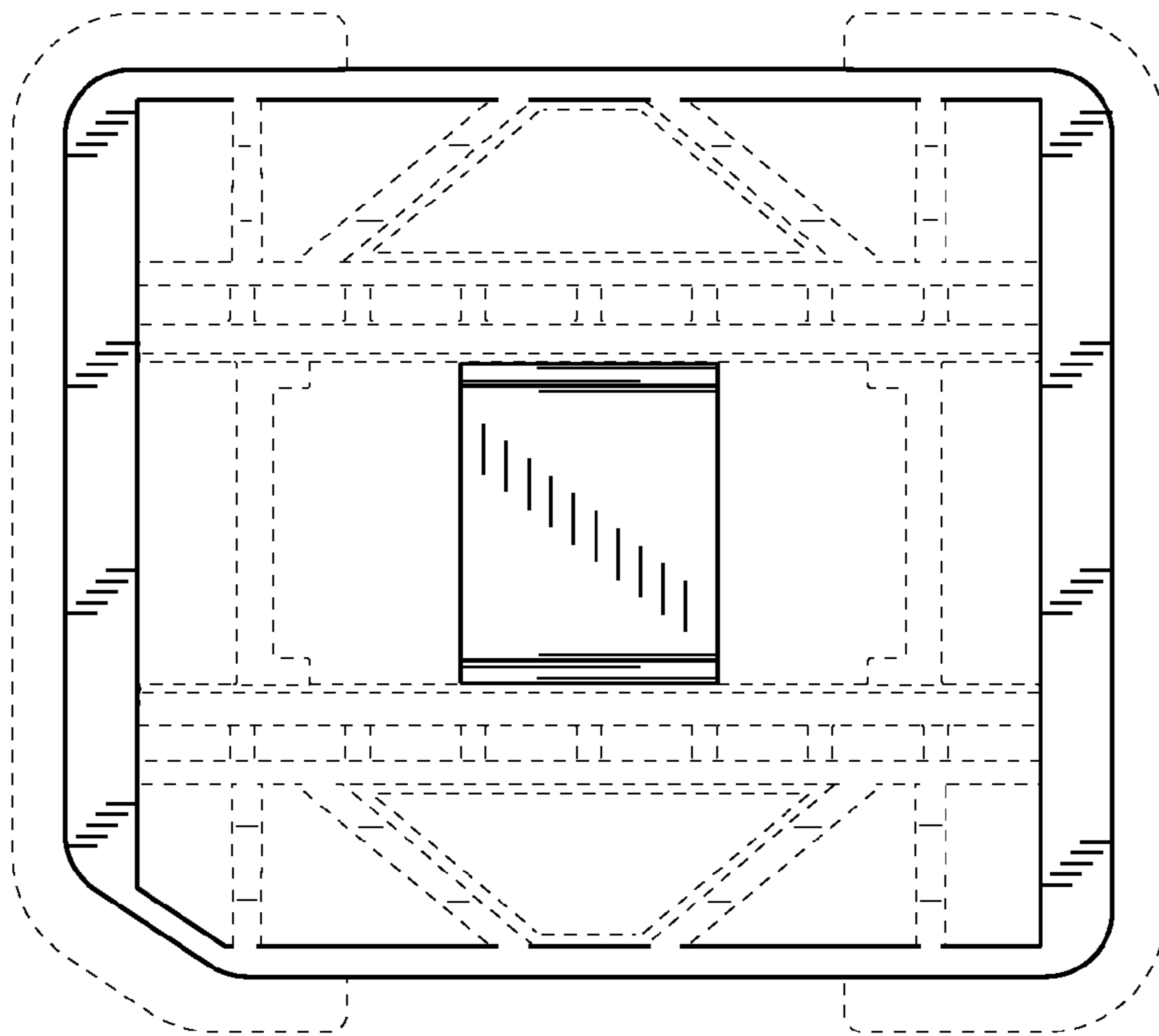


Fig. 3

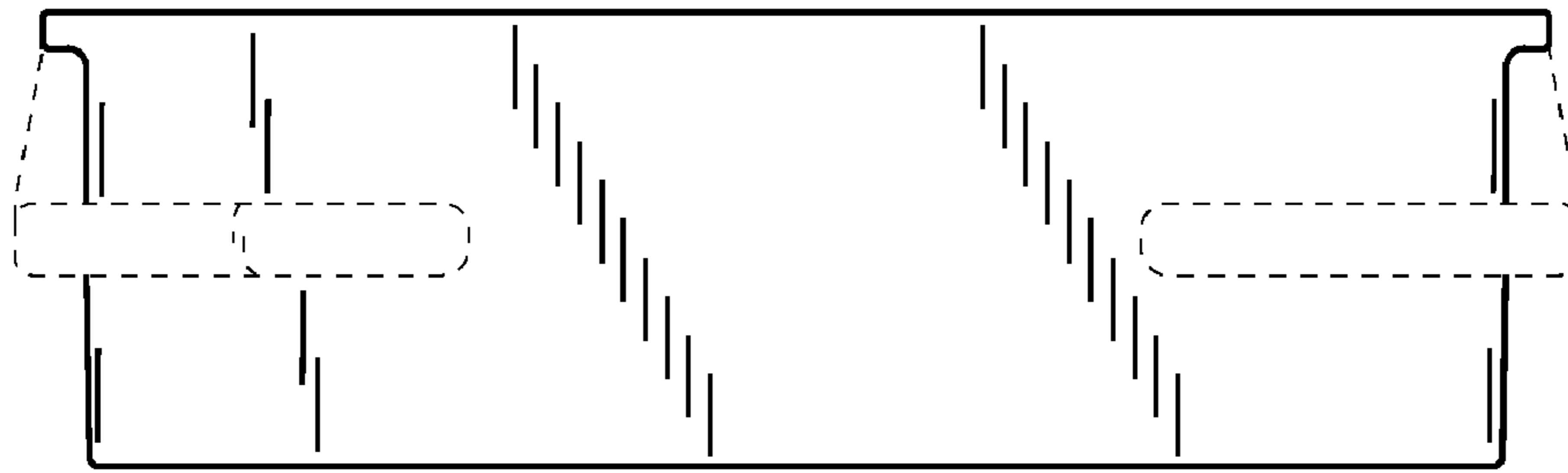


Fig. 4

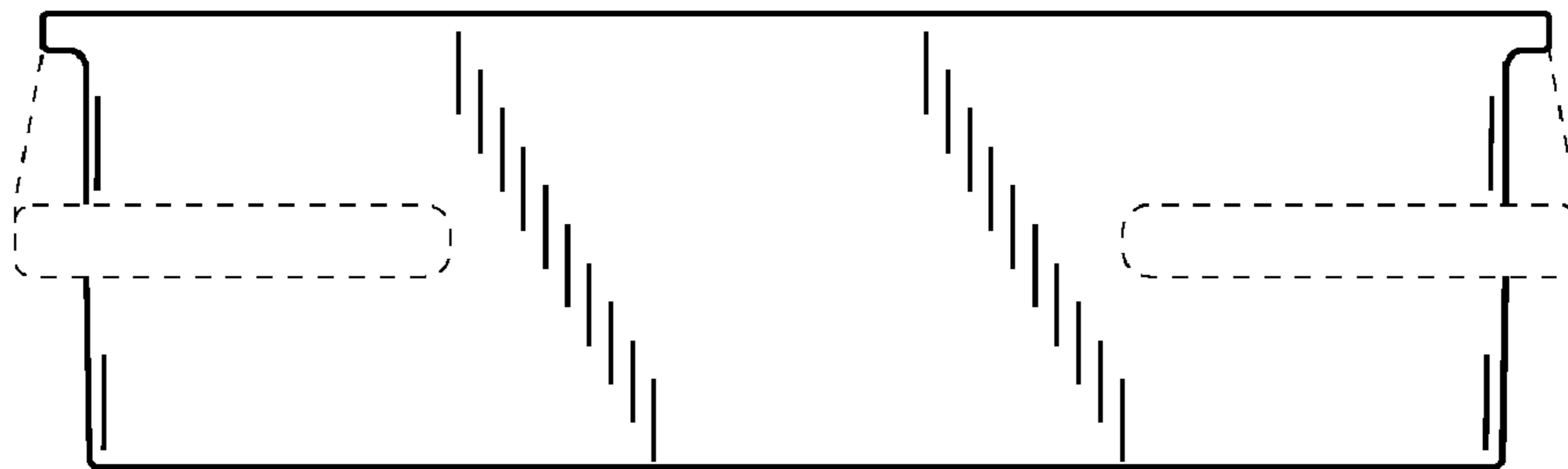


Fig. 5

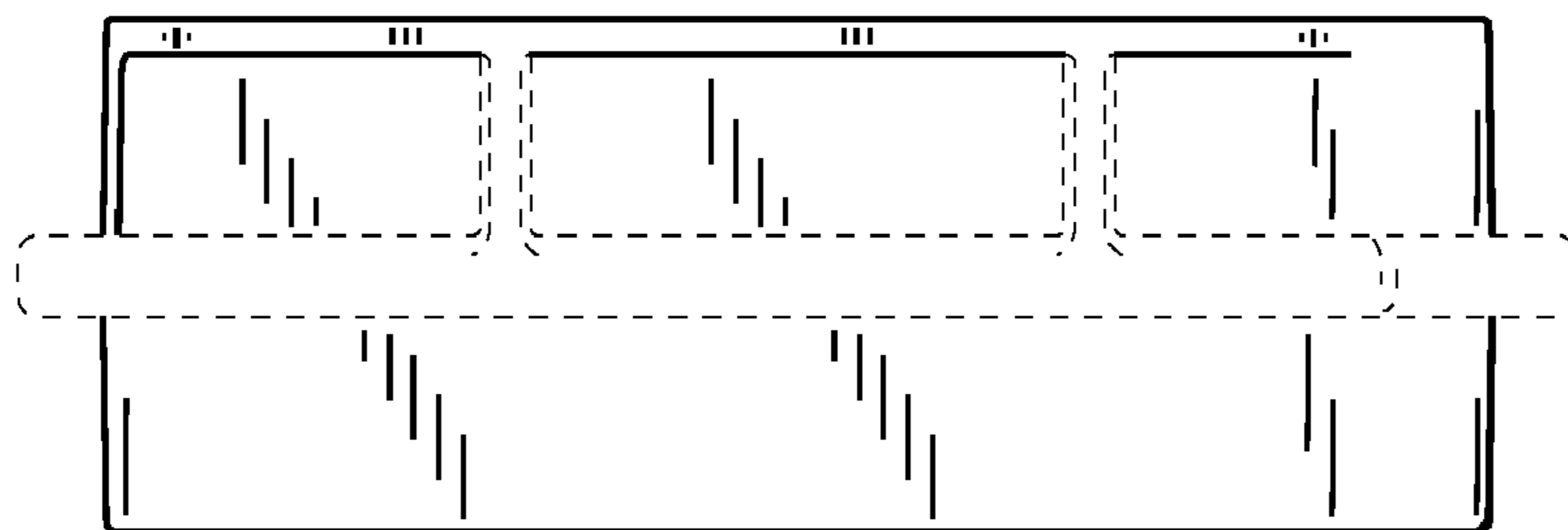


Fig. 6

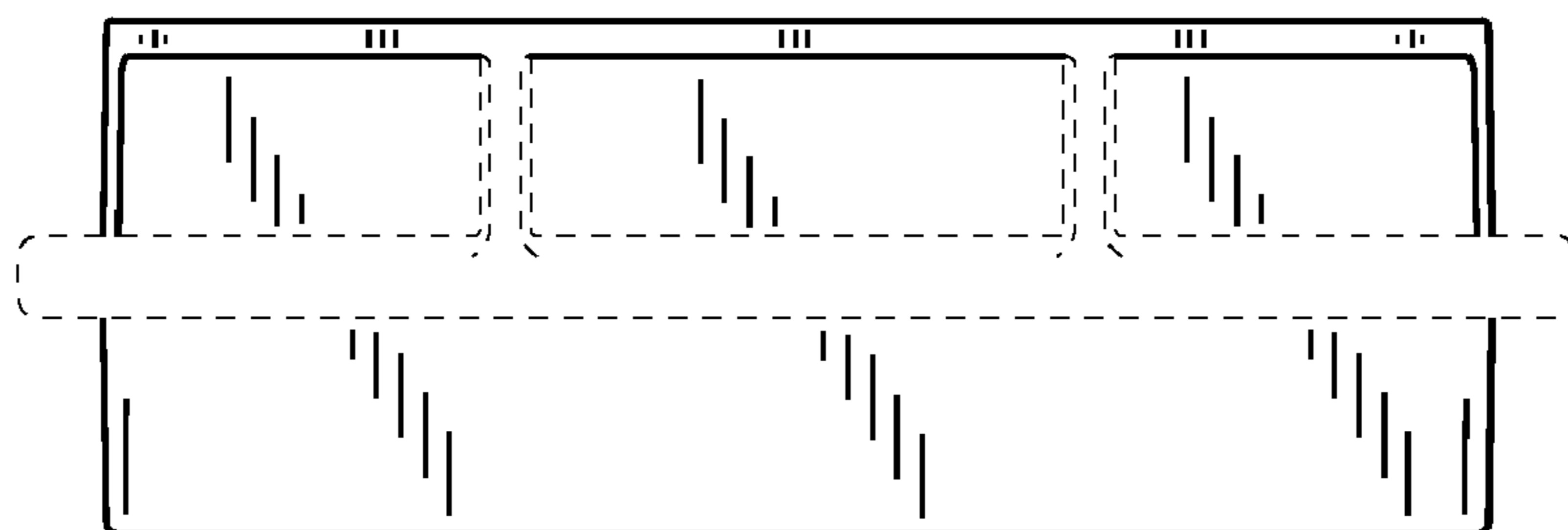


Fig. 7

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D627,473 S
APPLICATION NO. : 29/335298
DATED : November 16, 2010
INVENTOR(S) : Ingo Wagner

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

First Page, Column 2

Line 1, Delete "US 6454568" and insert -- EP 0982009 B1--, therefor.

Line 2, Delete "US 2003/0132539" and insert -- WO 01/097707 --, therefor.

Page 2, Column 1

Line 6, Delete "HintElis" and insert -- HintEls --, therefor.

Page 2, Column 2

Line 7, Delete "20130506026" and insert -- 201305C6026 --, therefor.

Signed and Sealed this
Fifth Day of April, 2011

A handwritten signature in black ink, reading "David J. Kappos". The signature is written in a cursive style with a large initial "D".

David J. Kappos
Director of the United States Patent and Trademark Office