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

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(45) **Date of Patent:** **\*\* Nov. 18, 2014**

(54) **ABRASIVE ARTICLE HAVING ABRASIVE SEGMENTS WITH SHAPED GULLET WALLS**

4,240,315 A 12/1980 Tuomaala  
4,267,814 A \* 5/1981 Benson et al. .... 125/15  
4,333,371 A 6/1982 Matsuda

(71) Applicant: **Marc Linh Hoang**, Thionville (FR)

(Continued)

(72) Inventor: **Marc Linh Hoang**, Thionville (FR)

FOREIGN PATENT DOCUMENTS

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(FR)

WO 0170471 A1 9/2001

OTHER PUBLICATIONS

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

Amazon.com; "Bosch DBSW961 Speedwave 9" Segmented Diamond Blade"; [http://www.amazon.com/Bosch-DBSW961-Speedwave-Segmented-Diamond/dp/B000PI8WMK/ref=sr\\_1\\_1?ie=UTF8&qid=1379346010&sr=8-1&keywords=dbsw961](http://www.amazon.com/Bosch-DBSW961-Speedwave-Segmented-Diamond/dp/B000PI8WMK/ref=sr_1_1?ie=UTF8&qid=1379346010&sr=8-1&keywords=dbsw961), Jul. 2, 2004, 4 pages.

(21) Appl. No.: **29/441,126**

(Continued)

(22) Filed: **Dec. 31, 2012**

(51) **LOC (10) Cl.** ..... **15-09**

*Primary Examiner* — Patricia Palasik

(52) **U.S. Cl.**

(74) *Attorney, Agent, or Firm* — Joseph P. Sullivan; Abel Law Group, LLP

USPC ..... **D15/133**; D15/139

(58) **Field of Classification Search**

USPC ..... D8/61, 64, 66, 70; D15/133, 138, 139, D15/140; 7/118, 148; 30/142, 144, 165, 30/166.3, 272.1, 314, 320, 346, 346.5, 30/346.55, 346.56, 346.6, 349, 351, 355, 30/357; 83/676, 835, 837-850

See application file for complete search history.

(57) **CLAIM**

The ornamental design for an abrasive article having abrasive segments with shaped gullet walls, as shown and described.

**DESCRIPTION**

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,711,102 A 4/1929 Sierra, Jr.  
1,723,843 A 8/1929 Chapin  
2,013,943 A 9/1935 Allen  
3,064,399 A 11/1962 Anderson  
3,107,706 A 10/1963 Heinemann  
3,128,755 A \* 4/1964 Benson ..... 125/15  
3,363,617 A 1/1968 Hoerer  
3,563,286 A 2/1971 Strobel et al.  
3,579,927 A 5/1971 Coes, Jr.  
3,700,016 A 10/1972 Strobel  
3,730,038 A 5/1973 Farb  
3,981,216 A 9/1976 Lemmon  
4,135,421 A 1/1979 Bertram et al.

FIG. 1 is a front view of an abrasive article having abrasive segments with shaped gullet walls according to the present design;

FIG. 2 is a rear view of FIG. 1;

FIG. 3 is a side view of FIG. 1;

FIG. 4 is a front view of a segment of abrasive article having abrasive segments with shaped gullet walls removed for clarity of disclosure of FIG. 1;

FIG. 5 is a rear view of FIG. 4;

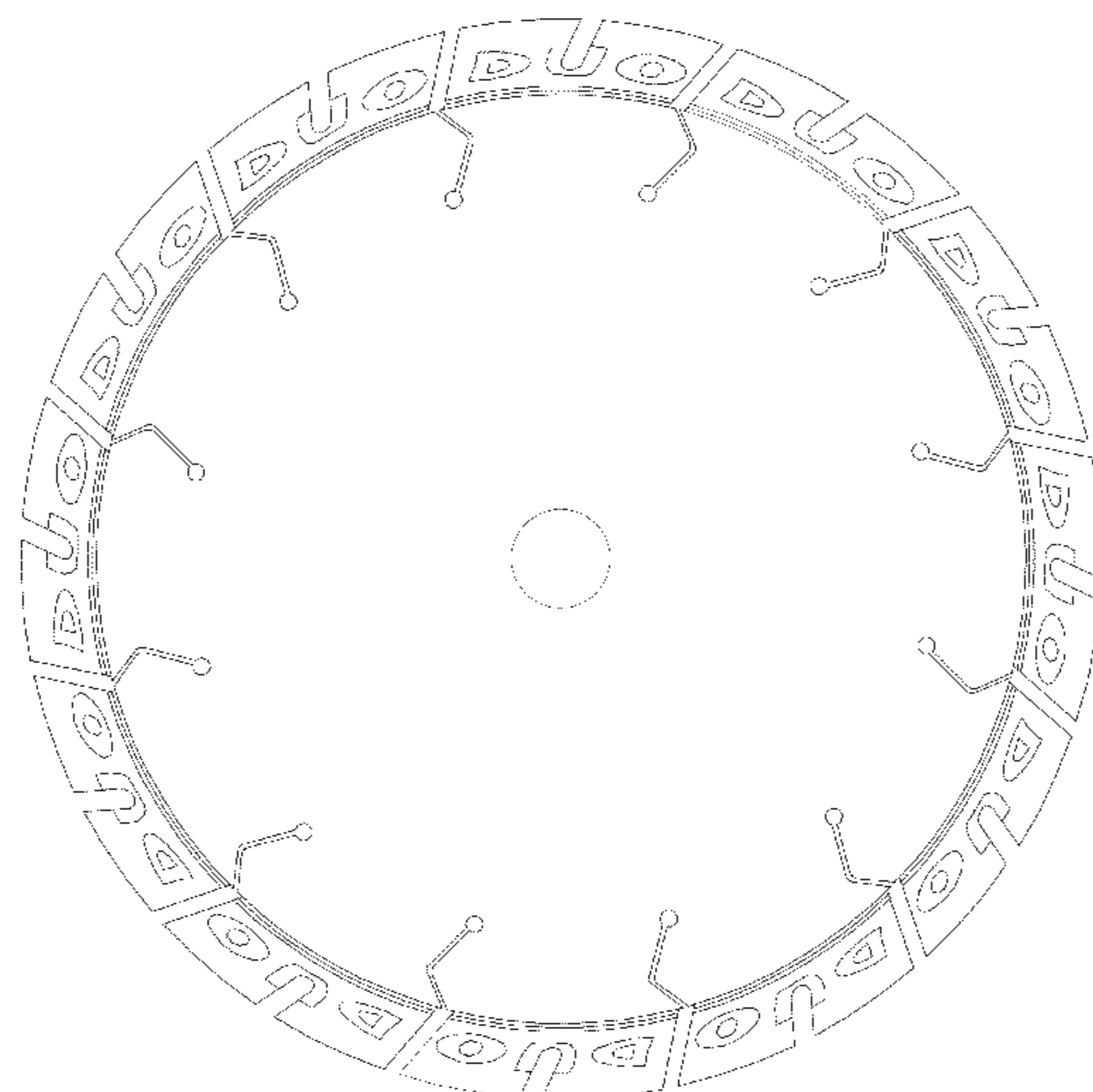
FIG. 6 is a top view of FIG. 4;

FIG. 7 is a bottom view of FIG. 4;

FIG. 8 is a first side view of FIG. 4; and,

FIG. 9 is a second side view of FIG. 4.

**1 Claim, 4 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

4,705,017	A	11/1987	Lewis	
D293,074	S	* 12/1987	Inoue .....	D8/20
4,848,205	A	7/1989	Suzuki et al.	
4,854,295	A	8/1989	Sakarcan	
5,054,354	A	10/1991	Kubis	
D337,713	S	7/1993	Johnston	
D341,304	S	11/1993	Johnston	
D345,683	S	4/1994	Johnston	
5,351,595	A	10/1994	Johnston	
5,438,900	A	8/1995	Sundstrom	
5,524,518	A	6/1996	Sundstrom	
5,555,788	A	9/1996	Gakhar et al.	
D397,012	S	* 8/1998	Hariu .....	D8/70
D401,829	S	* 12/1998	Hariu .....	D8/70
5,896,800	A	4/1999	Curtsinger et al.	
6,065,370	A	5/2000	Curtsinger et al.	
D447,496	S	9/2001	Lee et al.	
D458,948	S	6/2002	Chianese et al.	
6,408,838	B1	6/2002	Ogata et al.	
D459,740	S	7/2002	Chianese et al.	
6,878,051	B2	4/2005	Brach	

D513,952	S	1/2006	Lee et al.	
7,240,597	B2	7/2007	Sakai et al.	
7,946,907	B2	5/2011	Heyen	
2003/0213483	A1	11/2003	Sakarcan	
2004/0149114	A1	8/2004	Brach	
2006/0213495	A1*	9/2006	Gaida et al. ....	125/15
2009/0199693	A1	8/2009	Heyen	

OTHER PUBLICATIONS

Amazon.com; "EDCO 39701 Concrete Walk-Behind Saw 10-Inch Diamond Blade," [http://www.amazon.com/39701-Concrete-Walk-Behind-10-Inch-Diamond/dp/B004K1F604/ref=sr\\_1\\_1?ie=UTF8&qid=1379346082&sr=8-1&keywords=39701](http://www.amazon.com/39701-Concrete-Walk-Behind-10-Inch-Diamond/dp/B004K1F604/ref=sr_1_1?ie=UTF8&qid=1379346082&sr=8-1&keywords=39701), Jan. 21, 2011, 4 pages.

Amazon.com; "MK Diamond 162785 MK-304RCK Tiger Tooth 4½-Inch Premium Demolition Blade," [http://www.amazon.com/MK-Diamond-162785-MK-304RCK-Demolition/dp/B000NBDGX4/ref=sr\\_1\\_1?ie=UTF8&qid=1379346164&sr=8-1&keywords=162785](http://www.amazon.com/MK-Diamond-162785-MK-304RCK-Demolition/dp/B000NBDGX4/ref=sr_1_1?ie=UTF8&qid=1379346164&sr=8-1&keywords=162785), Feb. 8, 2006, 5 pages.

U.S. Appl. No. 29/441,129, filed Dec. 31, 2012, 4 pages.

\* cited by examiner

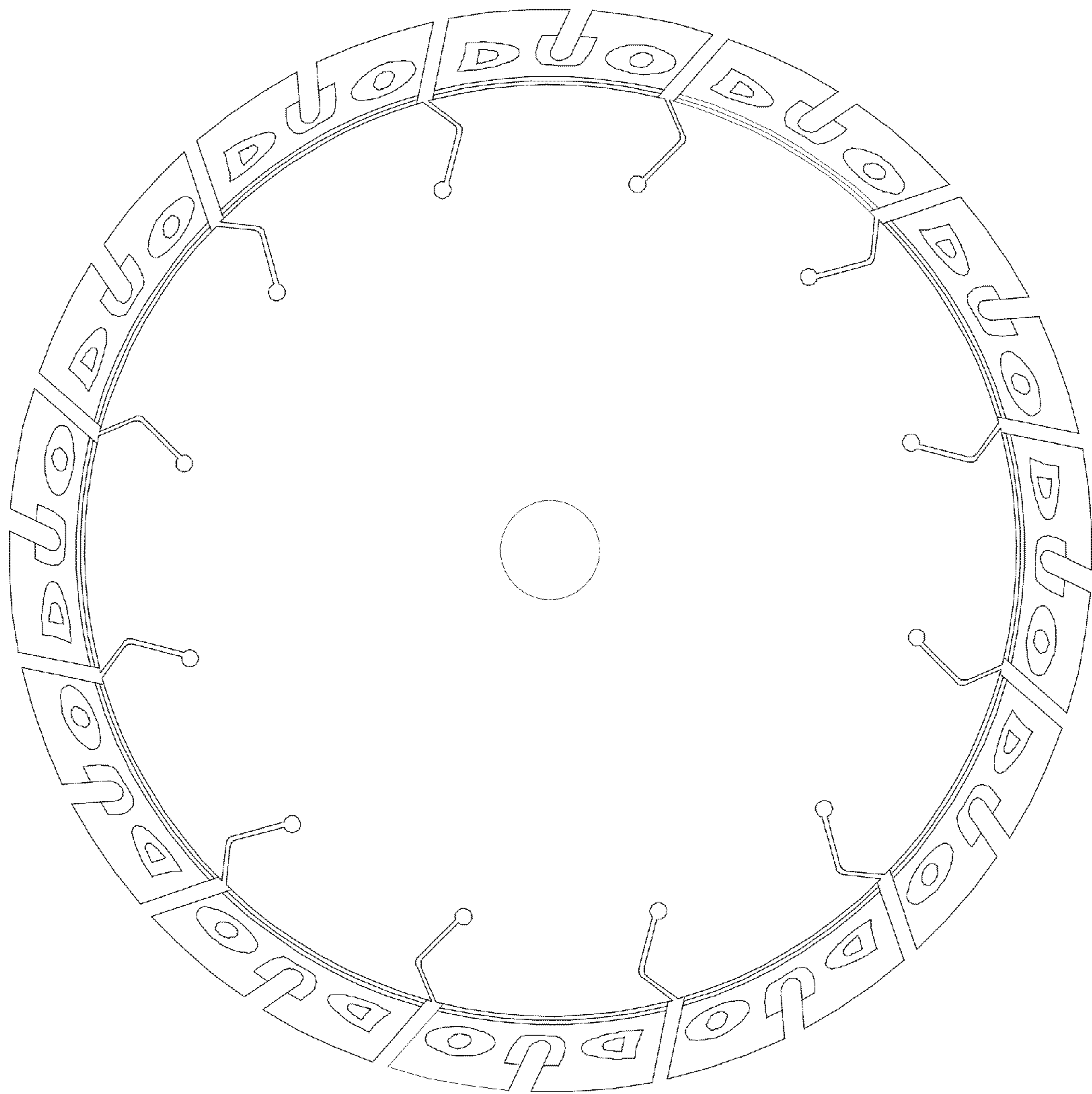
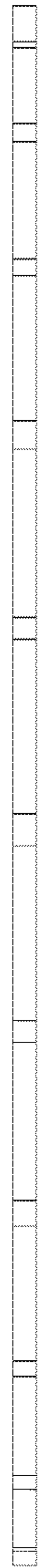


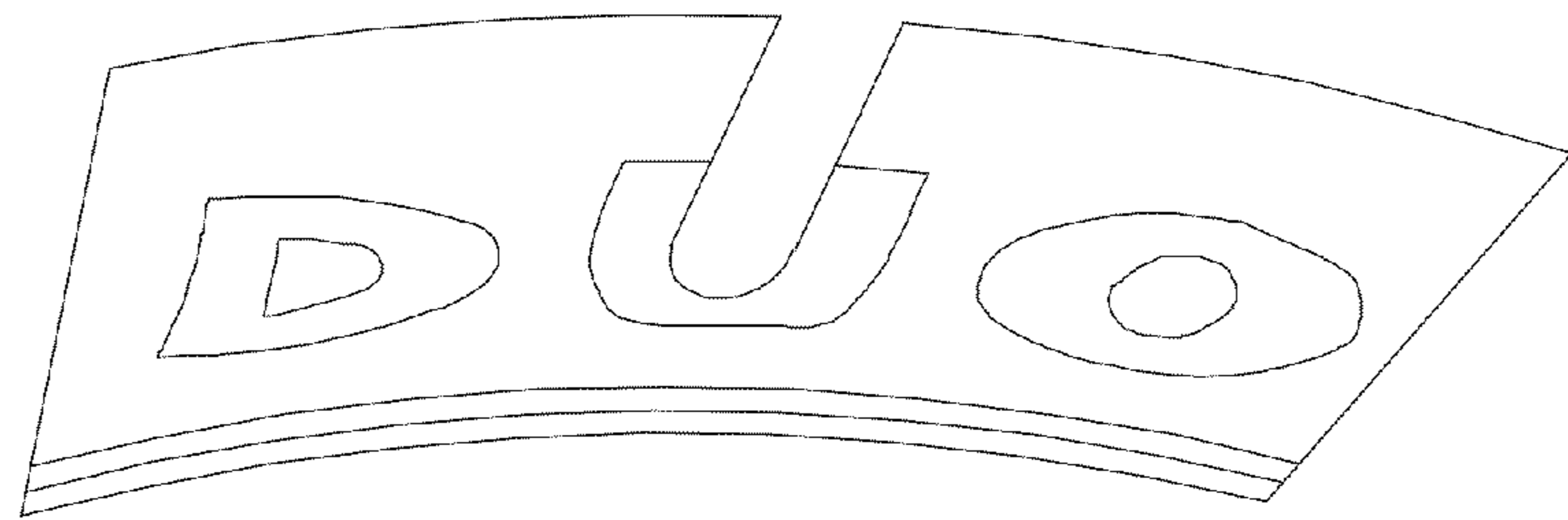
FIG. 1



FIG. 2

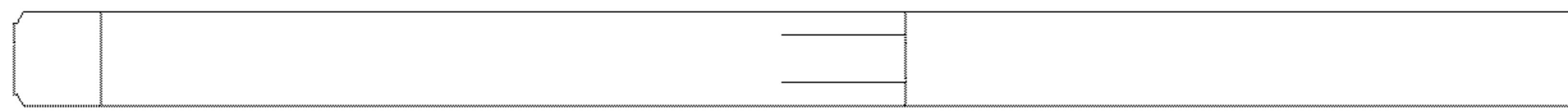


**FIG. 4**

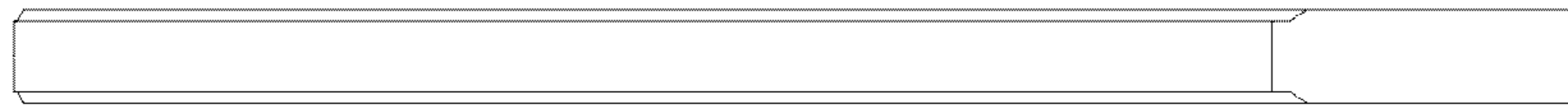


**FIG. 5**

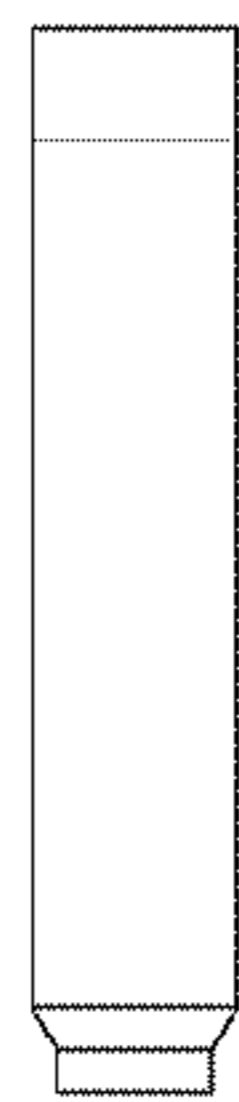
**FIG. 3**



**FIG. 6**



**FIG. 7**



**FIG. 8**



**FIG. 9**

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D717,841 S  
APPLICATION NO. : 29/441126  
DATED : November 18, 2014  
INVENTOR(S) : Marc Linh Hoang

Page 1 of 2

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

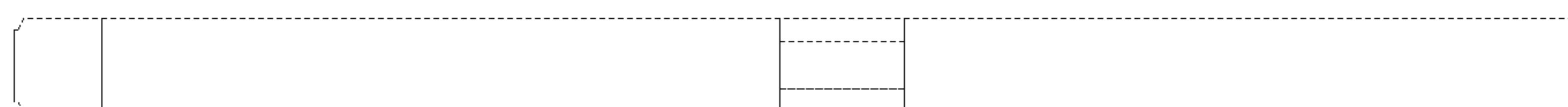
In the Drawings

Please replace sheet 4 of the drawings with attached Replacement Sheet.

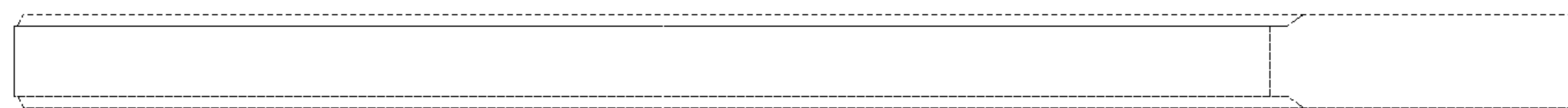
Signed and Sealed this  
Tenth Day of January, 2017



Michelle K. Lee  
*Director of the United States Patent and Trademark Office*



**FIG. 6**



**FIG. 7**



**FIG. 8**



**FIG. 9**