





(56)

References Cited

U.S. PATENT DOCUMENTS

D311,896 S	11/1990	Mori		D622,197 S	8/2010	Zhao	
D323,138 S	1/1992	Malmgren et al.		D623,109 S	9/2010	Markefka	
D325,189 S	4/1992	Kapitza		D623,111 S	9/2010	Spoerle	
D326,838 S	6/1992	Julien		D625,242 S	* 10/2010	Zhao .....	D12/211
D335,859 S	5/1993	Mattin		D628,527 S	12/2010	Faghihzadeh	
D361,320 S	8/1995	Wise		D630,146 S	1/2011	Finnie	
D367,637 S	3/1996	Hall		D633,028 S	* 2/2011	Kim .....	D12/211
D374,420 S	10/1996	Neeper		D634,690 S	3/2011	Wiesinger	
D375,074 S	10/1996	Sacco et al.		D635,903 S	4/2011	Zhang	
D376,573 S	12/1996	Niles		D638,763 S	5/2011	Chung	
D390,180 S	2/1998	Dehner		D639,222 S	6/2011	Johnson	
D391,215 S	2/1998	Cervati		D639,223 S	6/2011	Johnson	
D392,931 S	3/1998	Wang		D641,677 S	7/2011	Weil	
D392,932 S	3/1998	Wang		D641,679 S	7/2011	Vardis	
D395,634 S	6/1998	Choi		D648,254 S	11/2011	Barry	
D410,618 S	6/1999	Hussaini et al.		D655,234 S	3/2012	Zhao	
D417,427 S	* 12/1999	Brown .....	D12/211	D655,658 S	3/2012	Noone et al.	
6,024,415 A	2/2000	Stach		D655,660 S	3/2012	Stucki	
D429,206 S	8/2000	Ito		D655,663 S	3/2012	Zhao	
D433,985 S	11/2000	Pfeiffer		D656,448 S	3/2012	Zhao	
D437,821 S	2/2001	Frohlich		D656,451 S	3/2012	Zhao	
D438,500 S	3/2001	Embrador		D656,877 S	4/2012	Ikeda et al.	
6,234,581 B1	5/2001	Stach		D659,069 S	5/2012	Johnson	
D455,701 S	4/2002	McMath		D659,625 S	5/2012	Chan	
D456,332 S	4/2002	Vian		D660,220 S	5/2012	Chan	
D470,094 S	2/2003	van Hooydonk		D660,220 S	5/2012	von Holzhausen et al.	
6,598,917 B1	7/2003	Hapner et al.		D664,081 S	7/2012	Muller	
D480,036 S	9/2003	Laengerer		D666,955 S	9/2012	Chung	
D483,714 S	12/2003	Warming		D670,222 S	11/2012	Chung	
D486,114 S	2/2004	Lai		D670,226 S	11/2012	Muller	
D495,288 S	8/2004	Walbey, Jr.		D670,634 S	11/2012	Lee	
D496,320 S	* 9/2004	Cheng .....	D12/211	D671,059 S	11/2012	Pollmann	
D496,623 S	9/2004	Elmitt		D678,156 S	3/2013	Gotschke	
D505,905 S	6/2005	Walbey, Jr.		D678,160 S	3/2013	Claunch	
D506,966 S	7/2005	Kataoka		D680,047 S	4/2013	Hale, Jr.	
D513,222 S	12/2005	Pohanka		D680,049 S	4/2013	Hale, Jr.	
D519,900 S	5/2006	Francis		D680,486 S	4/2013	Zhao	
D522,950 S	6/2006	Pfeiffer		D680,936 S	4/2013	Claunch	
D527,332 S	8/2006	Khan		D680,940 S	4/2013	Hale, Jr.	
D528,493 S	9/2006	Stacy		D681,534 S	5/2013	Zhao	
D528,495 S	9/2006	Truebsbach		D684,516 S	6/2013	Bennion	
D533,496 S	12/2006	Bogani et al.		D686,129 S	7/2013	Juergens et al.	
D534,473 S	1/2007	Bernoni		D686,131 S	7/2013	Nissl	
D537,767 S	3/2007	Pfeiffer		D686,961 S	7/2013	Chung	
D541,726 S	5/2007	Musser		D686,963 S	7/2013	Hale, Jr.	
D542,209 S	5/2007	Pfeiffer		D686,966 S	7/2013	Pollmann	
D542,727 S	5/2007	Manfredini		D691,542 S	10/2013	Chan	
D543,922 S	6/2007	Young		D691,544 S	10/2013	Ferrett	
D544,822 S	6/2007	Walbey, Jr.		D695,181 S	12/2013	Kong	
D548,167 S	8/2007	Groom		D695,191 S	12/2013	Kogawa	
D549,148 S	8/2007	Buschmann		D695,194 S	12/2013	Kong	
D555,065 S	11/2007	Hernandez		D695,196 S	12/2013	Zane	
D567,166 S	4/2008	Bogani		D695,666 S	12/2013	Chung	
D570,276 S	6/2008	Chung		D696,616 S	12/2013	Gueler et al.	
D571,702 S	6/2008	Guidry		D697,003 S	1/2014	Baum et al.	
D578,457 S	10/2008	Guidry		D697,008 S	1/2014	Juergens et al.	
D578,458 S	* 10/2008	Cortes .....	D12/211	D697,013 S	1/2014	Nemeth	
D582,334 S	12/2008	Fournier		D698,300 S	1/2014	Chung	
D582,829 S	12/2008	Musser		D700,565 S	3/2014	Gonzalez	
D582,830 S	12/2008	Musser		D701,811 S	4/2014	Hale, Jr.	
D582,831 S	12/2008	Musser		D701,812 S	4/2014	Hale, Jr.	
D584,673 S	1/2009	Chung		D701,813 S	4/2014	Kern	
D585,352 S	1/2009	Scheu		D703,603 S	4/2014	Tirado	
D585,353 S	1/2009	Scheu		D704,124 S	* 5/2014	Hale, Jr. ....	D12/211
D587,179 S	2/2009	Pfeiffer		D704,617 S	5/2014	Chung	
D593,018 S	5/2009	Juergens et al.		D706,196 S	6/2014	Lee	
D594,802 S	6/2009	Gustafsson		D706,197 S	6/2014	Chung	
D596,548 S	7/2009	Gallert		D706,199 S	6/2014	Chung	
D604,685 S	11/2009	Zhou et al.		D707,610 S	6/2014	Hale, Jr.	
D610,065 S	2/2010	Gallert		D710,286 S	8/2014	Yamaguchi	
D610,516 S	2/2010	Dilber et al.		D712,814 S	9/2014	Starr, Jr.	
D613,661 S	4/2010	Lee et al.		D714,202 S	9/2014	Kim	
D621,320 S	8/2010	Majdandzic		D714,704 S	10/2014	Kim	
D621,321 S	8/2010	Groom		D717,224 S	11/2014	Kim	
D621,766 S	8/2010	Antoniadis et al.		D717,711 S	11/2014	Kern	
				D719,496 S	12/2014	Johnson	
				D719,890 S	12/2014	Johnson	
				D719,891 S	12/2014	Johnson	
				D721,631 S	1/2015	Ferrett	



(56)

References Cited

U.S. PATENT DOCUMENTS

D722,548 S	2/2015	Chung		D776,040 S	1/2017	Zhao	
D723,989 S	3/2015	Morikawa		D778,222 S	2/2017	Chung	
D723,992 S	3/2015	Zhao		D780,084 S	2/2017	Scheer et al.	
D723,994 S	3/2015	Chung		D780,086 S	2/2017	Galante et al.	
D726,088 S	4/2015	Hodges		D780,660 S	3/2017	Giolito	
D726,089 S	4/2015	Hodges		D780,662 S	3/2017	Zhao	
D726,621 S	4/2015	Alfonso		D781,197 S	3/2017	Ninov et al.	
D731,386 S	6/2015	Ferrett		D781,198 S	3/2017	Owens et al.	
D733,023 S	6/2015	Ferrett		D781,199 S	3/2017	Dionisopoulos et al.	
D733,631 S	7/2015	Dionisopoulos et al.		D781,201 S	3/2017	Ninov et al.	
D735,102 S	7/2015	Swanseger		D781,204 S	3/2017	Peat	
D735,630 S	8/2015	Swanseger		D781,206 S	3/2017	Giolito	
D736,133 S	8/2015	Hale		D781,763 S	3/2017	Webber	
D736,136 S	8/2015	Hale, Jr.		D781,766 S	3/2017	Galante et al.	
D736,138 S	8/2015	Hale		D782,383 S	3/2017	Owens et al.	
D737,189 S	8/2015	Claunch		D782,385 S	3/2017	Zhao	
D737,191 S	* 8/2015	Chung	D12/211	D782,952 S	4/2017	Ninov et al.	
D738,279 S	9/2015	Dionisopoulos et al.		D782,954 S	4/2017	Liffick	
D738,280 S	9/2015	Hale		D783,486 S	* 4/2017	Simpson	D12/209
D740,197 S	10/2015	Valencia Pollex		D783,491 S	4/2017	Valencia Pollex et al.	
D740,735 S	10/2015	Matsumura		D783,492 S	4/2017	Valencia Pollex	
D741,241 S	10/2015	Hale, Jr.		D784,235 S	4/2017	Kim	
D741,770 S	* 10/2015	Kim	D12/209	D784,889 S	4/2017	Peat	
D744,931 S	12/2015	Curic et al.		D784,891 S	4/2017	Groth	
D745,841 S	12/2015	Ferrett		D784,897 S	4/2017	Zhao	
D745,842 S	12/2015	Wheel		D785,537 S	5/2017	Valencia Pollex et al.	
D746,209 S	12/2015	Chung		D786,159 S	5/2017	Boyd	
D746,212 S	12/2015	Valencia Pollex		D786,161 S	5/2017	Vartoloa et al.	
D747,251 S	1/2016	Hammond		D786,163 S	* 5/2017	Wuescher	D12/211
D748,553 S	2/2016	Miyazawa		D787,410 S	5/2017	Chung	
D748,554 S	2/2016	Hale, Jr.		D787,412 S	5/2017	Alfonso	
D748,560 S	* 2/2016	Simm	D12/211	D787,413 S	5/2017	Alfonso	
D751,017 S	3/2016	Chung		D788,003 S	5/2017	Conforzi et al.	
D751,481 S	3/2016	Chung		D788,008 S	5/2017	Zhao	
D751,966 S	3/2016	Zhao		D788,009 S	5/2017	Zhao	
D752,497 S	3/2016	Johnson		D788,673 S	6/2017	Krause	
D757,624 S	5/2016	Hammond		D788,674 S	6/2017	Mielke	
D757,628 S	5/2016	Rolfs et al.		D788,676 S	6/2017	Payne	
D757,629 S	5/2016	Hubers et al.		D788,677 S	6/2017	Licklitter	
D758,275 S	6/2016	Patel		D788,679 S	* 6/2017	Yang	D12/211
D758,944 S	6/2016	Rolfs et al.		D790,427 S	* 6/2017	Palana	D12/211
D759,561 S	6/2016	Hale, Jr.		D790,428 S	6/2017	Zhao	
D760,138 S	6/2016	Henderson		D791,043 S	7/2017	Johnson	
D760,139 S	6/2016	Dionisopoulos et al.		D791,046 S	7/2017	Ishii	
D762,545 S	8/2016	Hodges		D791,047 S	7/2017	Bucher	
D762,546 S	8/2016	Giolito		D791,049 S	7/2017	Burki	
D763,163 S	* 8/2016	Chung	D12/211	D791,051 S	7/2017	Johnson	
D763,760 S	8/2016	Gale et al.		D791,052 S	* 7/2017	Hodges	D12/211
D763,761 S	8/2016	Dionisopoulos et al.		D791,057 S	* 7/2017	Johnson	D12/211
D763,762 S	8/2016	Ghobrial et al.		D791,672 S	7/2017	Palana	
D763,763 S	8/2016	Stone et al.		D791,675 S	* 7/2017	Guo	D12/211
D763,764 S	8/2016	Dunford et al.		D791,975 S	7/2017	Nelson	
D765,002 S	8/2016	Hoste et al.		D792,306 S	7/2017	Ishigaki	
D765,004 S	8/2016	Holstein		D792,308 S	* 7/2017	Guo	D12/209
D765,005 S	8/2016	Garbas		D792,314 S	7/2017	Gardaysky	
D765,572 S	9/2016	Umehara		D792,316 S	7/2017	Groth	
D765,574 S	9/2016	Hale, Jr.		D793,322 S	* 8/2017	Hodges	D12/211
D766,152 S	9/2016	Licklitter		D793,324 S	8/2017	Valencia Pollex	
D766,802 S	9/2016	Vartola et al.		D793,938 S	* 8/2017	Yang	D12/209
D766,803 S	9/2016	Giolito		D793,939 S	8/2017	Hans et al.	
D766,805 S	9/2016	Chung		D793,942 S	8/2017	Factor	
D766,806 S	9/2016	Tannen et al.		D794,532 S	8/2017	Zhao	
D767,465 S	9/2016	Liffick		D795,150 S	8/2017	Tran	
D767,468 S	9/2016	Stone et al.		D795,153 S	8/2017	Peat	
1,076,680 A1	9/2016	Goodrich et al.		D795,154 S	8/2017	Hans et al.	
D768,045 S	10/2016	Curic et al.		D795,775 S	* 8/2017	Simpson	D12/211
D768,047 S	10/2016	Hans et al.		D795,778 S	8/2017	Valencia Pollex	
D768,553 S	10/2016	Ishii		D795,779 S	8/2017	Valencia Pollex	
D769,165 S	10/2016	Choi		D795,780 S	* 8/2017	Simpson	D12/213
D770,353 S	11/2016	Hale, Jr.		D796,408 S	9/2017	Valencia Pollex	
D772,133 S	11/2016	Stone et al.		D797,026 S	9/2017	Khachatryan	
D774,434 S	12/2016	Nakahara		D797,028 S	9/2017	Chung	
D774,437 S	12/2016	Nakano		D797,030 S	9/2017	Chung	
D775,049 S	12/2016	Scheer et al.		D797,634 S	9/2017	Baccari	
D775,573 S	* 1/2017	Simpson	D12/209	D797,635 S	9/2017	Rueckheim	
				D797,636 S	9/2017	Chung	
				D798,211 S	9/2017	Chung	
				D798,213 S	9/2017	Valencia Pollex	
				D798,786 S	10/2017	Chung	

(56)

References Cited

U.S. PATENT DOCUMENTS

D799,394 S 10/2017 Yamashita  
 D799,399 S 10/2017 Chung  
 D800,046 S 10/2017 Chung  
 D800,626 S 10/2017 Sempek  
 D800,627 S 10/2017 Mielke  
 D800,629 S \* 10/2017 Tran ..... D12/209  
 D800,633 S 10/2017 Kong  
 D801,252 S 10/2017 McMath  
 D802,512 S 11/2017 Kong  
 D803,129 S 11/2017 McMath  
 D803,748 S 11/2017 English et al.  
 D803,752 S 11/2017 Sempek  
 D803,753 S 11/2017 Zhao  
 D803,755 S 11/2017 Widua  
 9,815,323 B2 11/2017 Chenault, III et al.  
 D804,387 S 12/2017 Zhao  
 D804,388 S 12/2017 Snyder et al.  
 D805,016 S 12/2017 Jallad  
 D805,456 S 12/2017 Chung  
 D805,991 S 12/2017 Platto et al.  
 D805,993 S 12/2017 Sempek  
 9,840,110 B2 12/2017 Dingle  
 D806,629 S 1/2018 Bridan et al.  
 D806,630 S 1/2018 McMath  
 D806,631 S 1/2018 Sempek  
 D806,633 S 1/2018 Setter et al.  
 D807,270 S 1/2018 Zhao  
 D808,322 S 1/2018 Sempek

D808,327 S 1/2018 Chung  
 9,878,575 B2 1/2018 Kim et al.  
 D811,304 S 2/2018 Chung  
 D813,137 S 3/2018 Sempek  
 2007/0257547 A1 11/2007 Tsai  
 2013/0119749 A1 5/2013 Kondo et al.  
 2014/0103701 A1 4/2014 Chung et al.  
 2014/0159469 A1 6/2014 Chinavare et al.  
 2015/0042150 A1 2/2015 Goto  
 2015/0275336 A1 10/2015 Fukuda  
 2016/0001591 A1 1/2016 Inatani et al.  
 2016/0052335 A1 2/2016 Dingle et al.  
 2016/0303895 A1 10/2016 Kim et al.  
 2016/0339739 A1 11/2016 Hodges

FOREIGN PATENT DOCUMENTS

CN 0017998340005 12/2010  
 CN 102795050 11/2012  
 JP 5323783 10/2013  
 KR 20130030557 3/2013

OTHER PUBLICATIONS

XM-104-Gloss-Black-Machined-Face-1 - XM-313. xmudderwheel.com. [online img] 1 pg. uploaded Jul. 2016. [Retrieved on Mar. 23, 2018] <http://www.xmudderwheel.com/blog/xm-313/> img URL: <http://www.xmudderwheel.com/wp-content/uploads/2016/07/XM-104-GLOSS-BLACK-MACHINED-FACE-1.jpg>.\*

\* cited by examiner



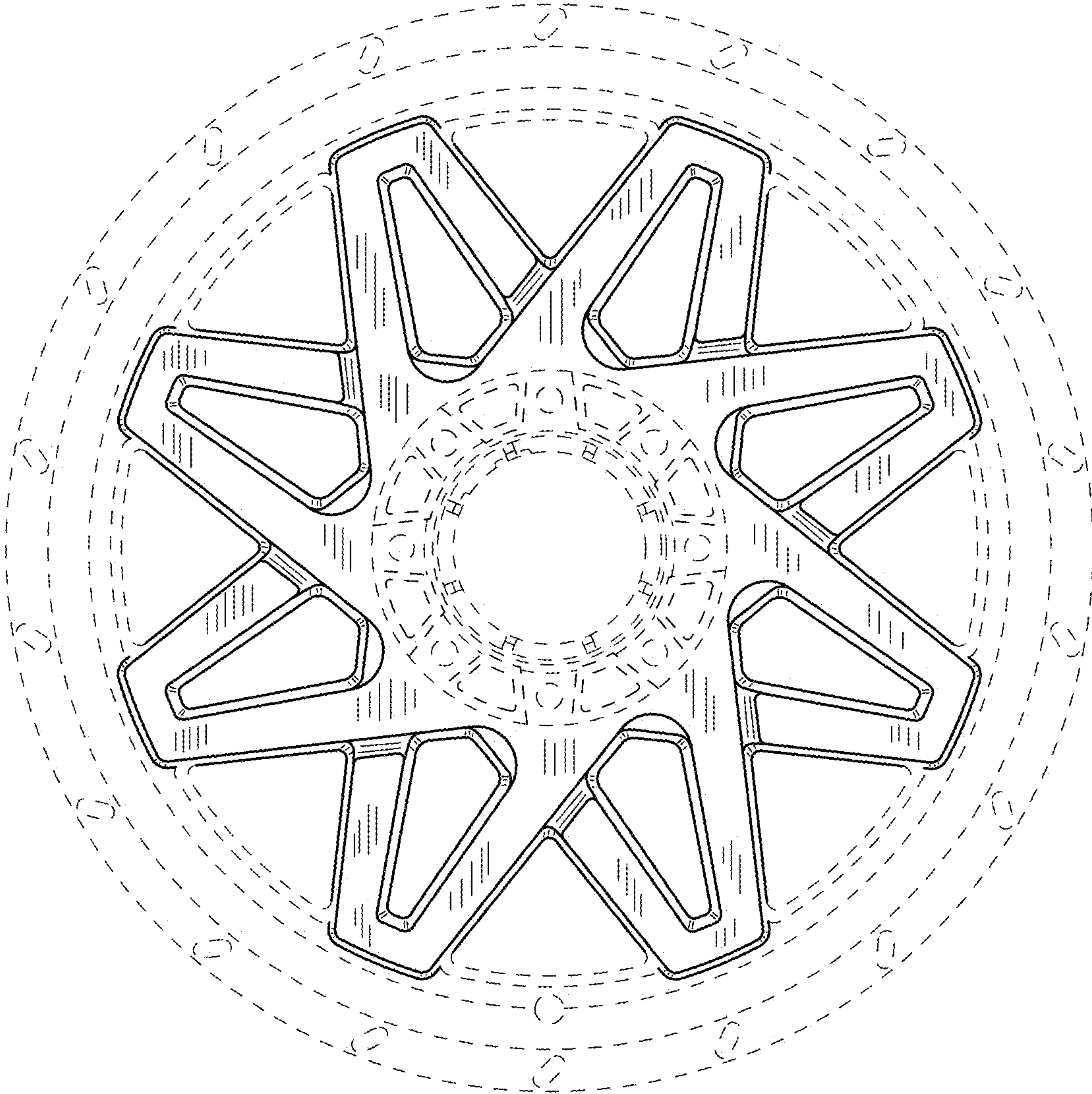


FIG.1

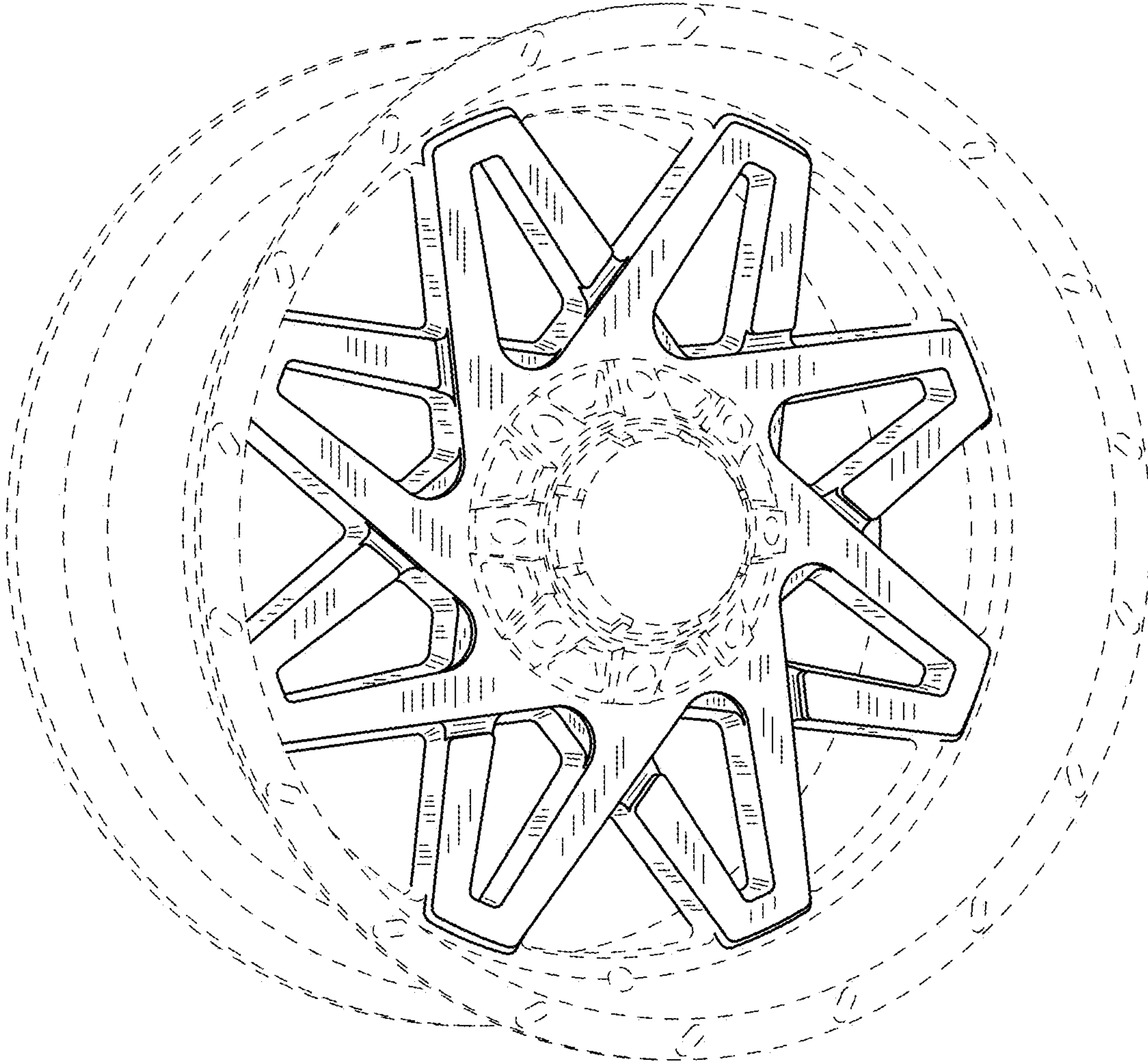


FIG.2

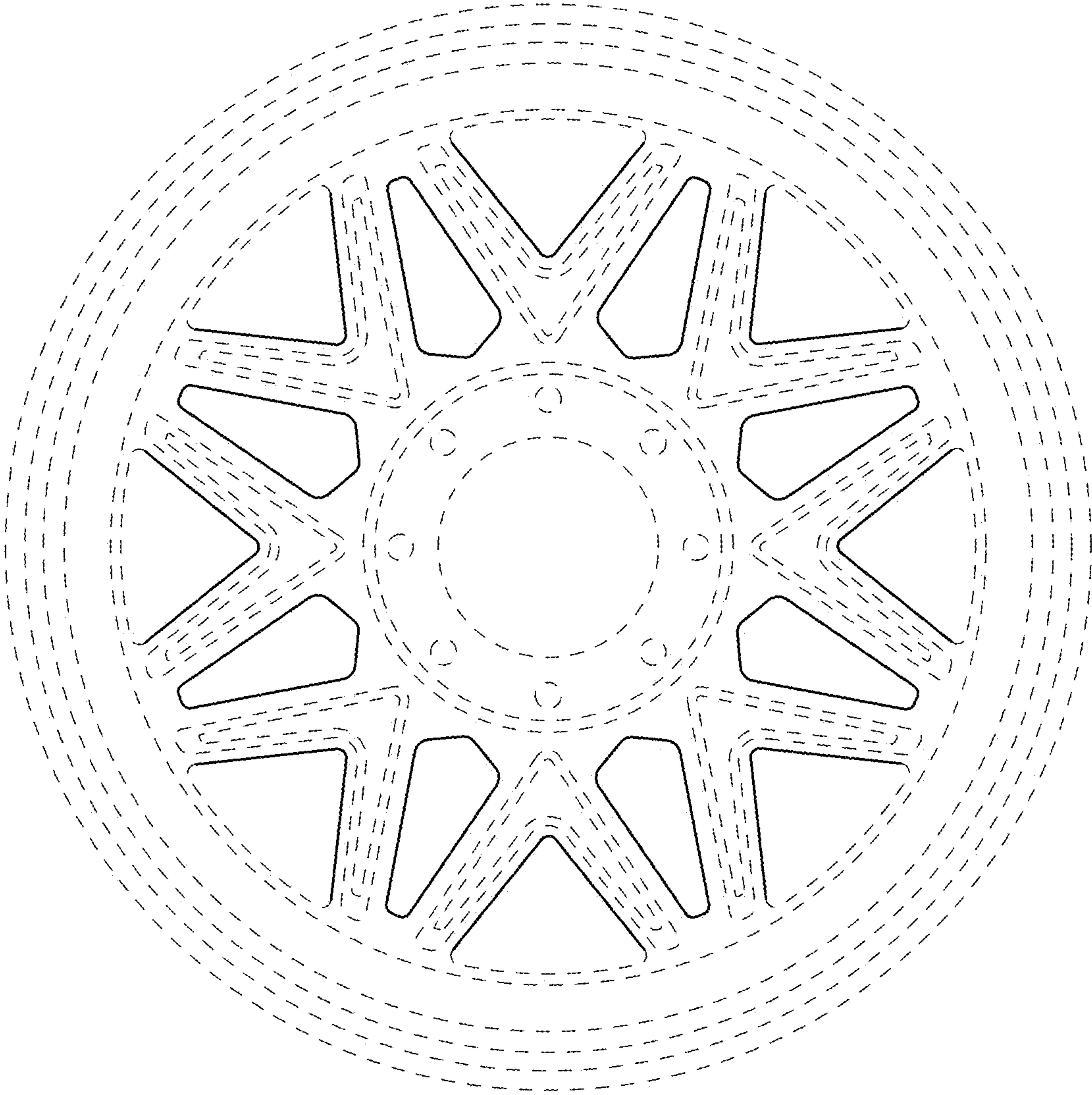


FIG.3