



US00D817834S

(12) **United States Design Patent** (10) **Patent No.:** **US D817,834 S**
Ahn et al. (45) **Date of Patent:** **** May 15, 2018**

(54) **AUTONOMOUS VEHICLE DOOR**
(71) Applicant: **Waymo LLC**, Mountain View, CA (US)

D287,289 S 12/1986 Kato et al.
D293,937 S 1/1988 Soma
D293,938 S 1/1988 Soma
(Continued)

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OTHER PUBLICATIONS

McFadden, Colin-Druce, "Autonomous car concept swaps steering wheel for gesture controls", <<http://www.dvice.com/2014-3-12/autonomous-car-concept-swaps-steering-wheel-gesture-controls>>, Mar. 12, 2014.

(Continued)

(73) Assignee: **Waymo LLC**, Mountain View, CA (US)

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

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(21) Appl. No.: **29/560,180**

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(22) Filed: **Apr. 4, 2016**

(57) **CLAIM**

The ornamental design for an autonomous vehicle door, as shown and described.

Related U.S. Application Data

(62) Division of application No. 29/514,665, filed on Jan. 15, 2015, now Pat. No. Des. 758,269, which is a division of application No. 29/491,723, filed on May 23, 2014, now Pat. No. Des. 731,383.

(51) **LOC (11) Cl.** **12-16**

(52) **U.S. Cl.**
USPC **D12/196**

(58) **Field of Classification Search**
USPC D12/196, 190
CPC B60R 13/0243; B60J 5/00; B60J 5/0415; B60J 5/0451
See application file for complete search history.

DESCRIPTION

The present application is related to application Ser. No. 29/491,722, entitled Autonomous Vehicle Overall Exterior; to application Ser. No. 29/491,717, entitled Tire Rim; to application Ser. No. 29/491,734, entitled Autonomous Vehicle Headlamp; to application Ser. No. 29/491,730, entitled Autonomous Vehicle Taillamp; to application Ser. No. 29/491,726, entitled Autonomous Vehicle Wing Assembly; and to application Ser. No. 29/491,727, entitled Autonomous Vehicle Rear Vent/Reflector, the entire disclosures of which are incorporated by reference herein.

FIG. 1 is a front perspective view of an autonomous vehicle door according to our design; and,

FIG. 2 is a front elevation view thereof.

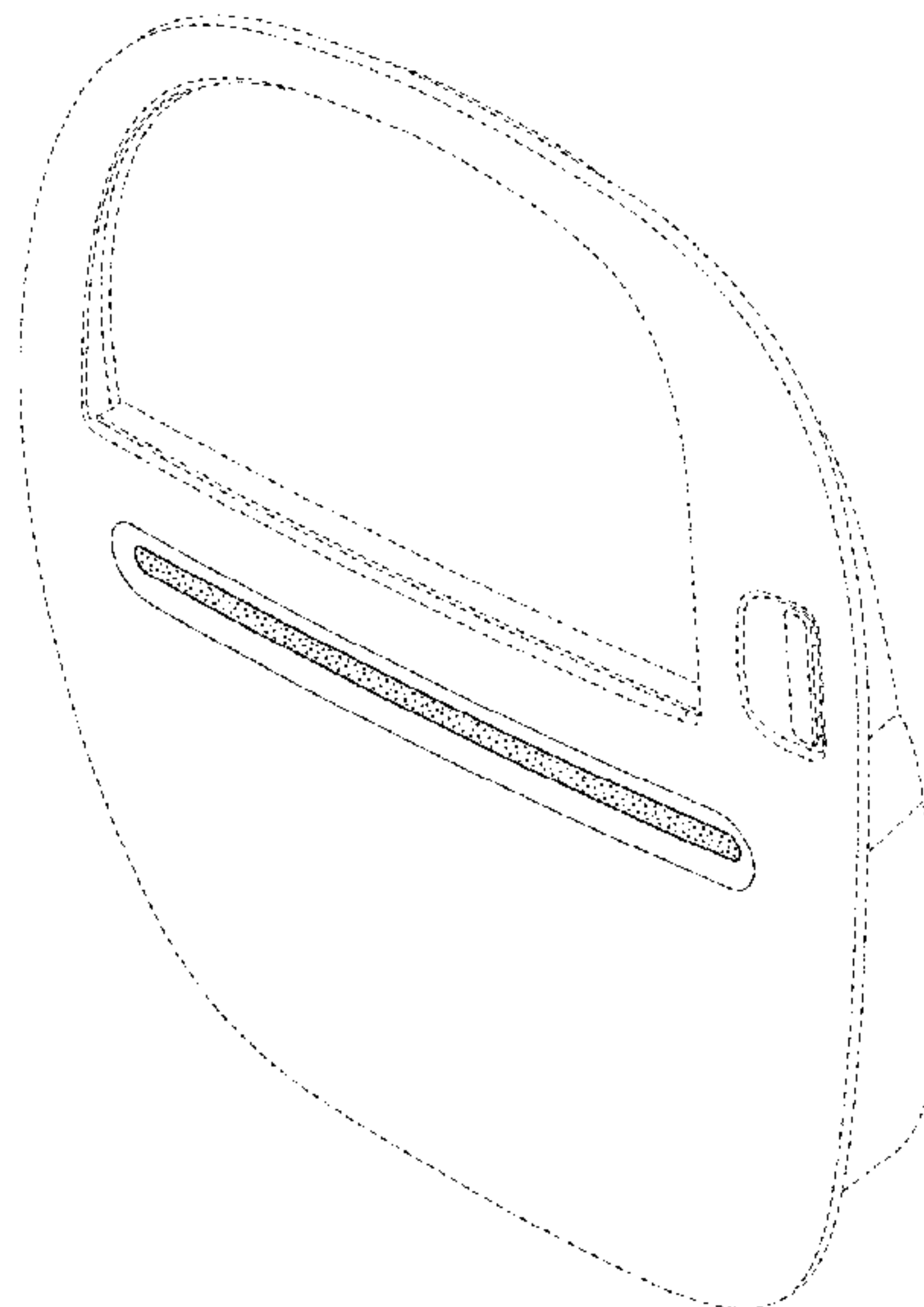
The broken lines shown illustrate portions of the autonomous vehicle door that form no part of the claimed design. Areas of the design shown with a stipple fill shading on the autonomous vehicle door is to indicate a contrast in color.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,032,645 A 5/1962 Wilfert
3,093,320 A 6/1963 Knapp
D282,923 S 3/1986 Soederberg

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D294,365 S	2/1988	Nishibori et al.	
D309,593 S *	7/1990	Bailey	D12/167
5,060,994 A *	10/1991	Martin	B60R 13/04 267/140
D323,901 S	2/1992	Falck et al.	
5,267,763 A *	12/1993	Klein	B60R 13/04 248/206.5
D350,503 S	9/1994	Yang	
D411,814 S	7/1999	Chibuka et al.	
D418,471 S	1/2000	Gabath	
D421,588 S	3/2000	Kitamura	
D446,484 S *	8/2001	Martel	B60R 13/04 D12/167
D447,191 S	8/2001	Hoelzel et al.	
6,318,045 B1	11/2001	Kress	
D456,312 S	4/2002	Leutz	
D457,115 S	5/2002	Mahoney et al.	
D459,764 S	7/2002	Hoelzel et al.	
D466,458 S	12/2002	Murkett	
D467,849 S	12/2002	Murkett	
D471,142 S *	3/2003	Carroll	D12/196
6,530,251 B1	3/2003	Dimig	
D472,505 S *	4/2003	Hurayt	D12/190
D472,863 S	4/2003	Carroll	
D475,474 S	6/2003	Hsieh et al.	
D476,340 S	6/2003	Niebuhr et al.	
D484,080 S *	12/2003	Yamamoto	D12/190
D486,596 S	2/2004	Chen	
D490,170 S	5/2004	Metros et al.	
D491,855 S	6/2004	Velazco	
D494,913 S	8/2004	Chapman	
D511,731 S *	11/2005	Lariviere	D12/196
D515,489 S	2/2006	Tokutake	
D520,428 S	5/2006	Iwanaga et al.	
D525,727 S	7/2006	Fujimoto et al.	
D525,731 S	7/2006	Hovind et al.	
D526,429 S	8/2006	Hovind et al.	
D527,122 S	8/2006	Chuang	
D527,697 S	9/2006	Metros et al.	
D528,490 S	9/2006	Schumaker	
D532,535 S	11/2006	Lin	
D534,285 S	12/2006	Williams	
D546,986 S	7/2007	Platto et al.	
D547,473 S	7/2007	Yeoman et al.	
D549,364 S	8/2007	Hovind et al.	
D549,366 S	8/2007	Hovind et al.	
D553,269 S	10/2007	Pfeiffer et al.	
D556,111 S	11/2007	Levy	
D556,662 S	12/2007	Murkett	
D559,734 S	1/2008	Sinkwitz	
D564,432 S	3/2008	Pfeiffer	
D565,764 S	4/2008	Zimmermann et al.	
D568,792 S	5/2008	Moushegian et al.	
D578,685 S	10/2008	Manus	
D581,081 S	11/2008	Mier-Langner	
D582,824 S	12/2008	Kobayashi	
D586,020 S	2/2009	Hsu	
D592,102 S	5/2009	Kim	
D592,336 S	5/2009	Hsu	
D593,231 S	5/2009	Koman	
7,537,256 B2	5/2009	Gates et al.	
D594,383 S	6/2009	Lo et al.	
D596,323 S	7/2009	Ishizuka et al.	
D599,264 S	9/2009	Akasawa et al.	
D601,072 S	9/2009	Giachin	
D603,296 S	11/2009	Zhou et al.	
D603,306 S	11/2009	Jung et al.	
D608,263 S	1/2010	Truebsbach	
D613,220 S *	4/2010	Ikeda	D12/190
D615,905 S	5/2010	Arnell	
D619,931 S	7/2010	Arnell	
D624,218 S	9/2010	Nakai et al.	
D624,471 S	9/2010	Green	
D625,445 S	10/2010	Takahashi et al.	
D629,717 S	12/2010	Artioli	
D630,563 S	1/2011	Schneider	
D633,644 S	3/2011	Sprengers	
D633,839 S	3/2011	Matei et al.	
D634,053 S	3/2011	Guercio	
D634,686 S	3/2011	Matei et al.	
D636,312 S *	4/2011	Matei	D12/190
D636,317 S	4/2011	Matei et al.	
D638,338 S	5/2011	Huet	
D644,975 S	9/2011	Kumai et al.	
D647,833 S *	11/2011	Matei	D12/190
D649,910 S	12/2011	Mullen	
D651,132 S	12/2011	Lambri et al.	
D655,836 S	3/2012	Lee et al.	
D657,725 S	4/2012	Segura	
D660,211 S	5/2012	Ikuma et al.	
D663,665 S	7/2012	Hakamata et al.	
D667,973 S	9/2012	Schneider	
D671,452 S	11/2012	Fernandez Isoird	
D671,453 S	11/2012	Fernandez Isoird	
D675,961 S	2/2013	Nagafuchi et al.	
D676,359 S	2/2013	Panoz et al.	
D678,566 S	3/2013	Janssen	
D680,931 S	4/2013	Schmeckpeper	
D681,529 S	5/2013	Minami et al.	
D682,172 S	5/2013	Peltola et al.	
D682,759 S	5/2013	Oliver	
D684,091 S	6/2013	Frenzel et al.	
D684,509 S	6/2013	Noll	
D684,515 S	6/2013	Oliver	
D692,167 S	10/2013	Yamazaki et al.	
D692,168 S	10/2013	Harrington, Jr.	
D693,270 S	11/2013	Burki et al.	
D693,272 S	11/2013	Burki et al.	
D695,177 S	12/2013	Matsueda	
D695,178 S	12/2013	Tada et al.	
D695,179 S	12/2013	Tada et al.	
D695,661 S	12/2013	Asano et al.	
D695,663 S	12/2013	Suga et al.	
D695,664 S	12/2013	Suga et al.	
D696,172 S	12/2013	Kawasaki et al.	
D696,999 S	1/2014	Suga et al.	
D698,717 S	2/2014	Kobayashi	
D699,375 S	2/2014	Ueda et al.	
D700,104 S	2/2014	Malachowski	
D701,334 S	3/2014	Christ	
D706,191 S	6/2014	Choi et al.	
D706,467 S	6/2014	Robinson	
D706,692 S	6/2014	Wheel et al.	
D710,264 S	8/2014	Watkins et al.	
D711,566 S	8/2014	Wu	
D712,327 S	9/2014	Tanaka et al.	
D712,813 S	9/2014	Tanaka et al.	
D714,700 S	10/2014	Yamamoto	
D715,204 S	10/2014	Peltola et al.	
D716,206 S	10/2014	Thole et al.	
D716,210 S	10/2014	Ishikawa et al.	
D716,476 S	10/2014	Asano	
D718,197 S	11/2014	Chen	
D718,695 S	12/2014	Galante et al.	
D719,062 S	12/2014	Wada	
D720,267 S	12/2014	Norman et al.	
D720,874 S	1/2015	Jackson et al.	
D721,023 S	1/2015	Wiedeman et al.	
D721,024 S	1/2015	Thole et al.	
D722,933 S	2/2015	Ishikawa et al.	
D726,082 S	4/2015	Finney et al.	
D726,351 S	4/2015	Kato	
D730,254 S	5/2015	Glover et al.	
D731,097 S	6/2015	Dai	
D731,379 S	6/2015	Behmer et al.	
D731,382 S	6/2015	Mana et al.	
D731,383 S *	6/2015	Ahn	D12/196
D733,630 S	7/2015	Ahn et al.	
D734,211 S	7/2015	Ahn et al.	
D736,430 S	8/2015	Ko	
D743,312 S	11/2015	Iwauchi	
D743,863 S	11/2015	Finney et al.	
D745,722 S	12/2015	Smith	
D757,621 S *	5/2016	Ahn	D12/196

(56) **References Cited**

U.S. PATENT DOCUMENTS

D761,175 S * 7/2016 Stoynov D12/190
D761,176 S 7/2016 Sandys
D763,757 S 8/2016 Buffery
D766,792 S 9/2016 Shimizu
D768,042 S 10/2016 Lee
D784,884 S * 4/2017 Ahn D12/195
D793,329 S * 8/2017 Mathis D12/400
2014/0252949 A1 9/2014 Ko et al.

OTHER PUBLICATIONS

Ridden, Paul, “ATNMBL—The concept car with no steering wheel, brake pedal or driver’s seat”, <<http://www.gizmag.com/atnmb1-autonomous-concept-passenger-transport/15877/>>, Jul. 29, 2010.

* cited by examiner

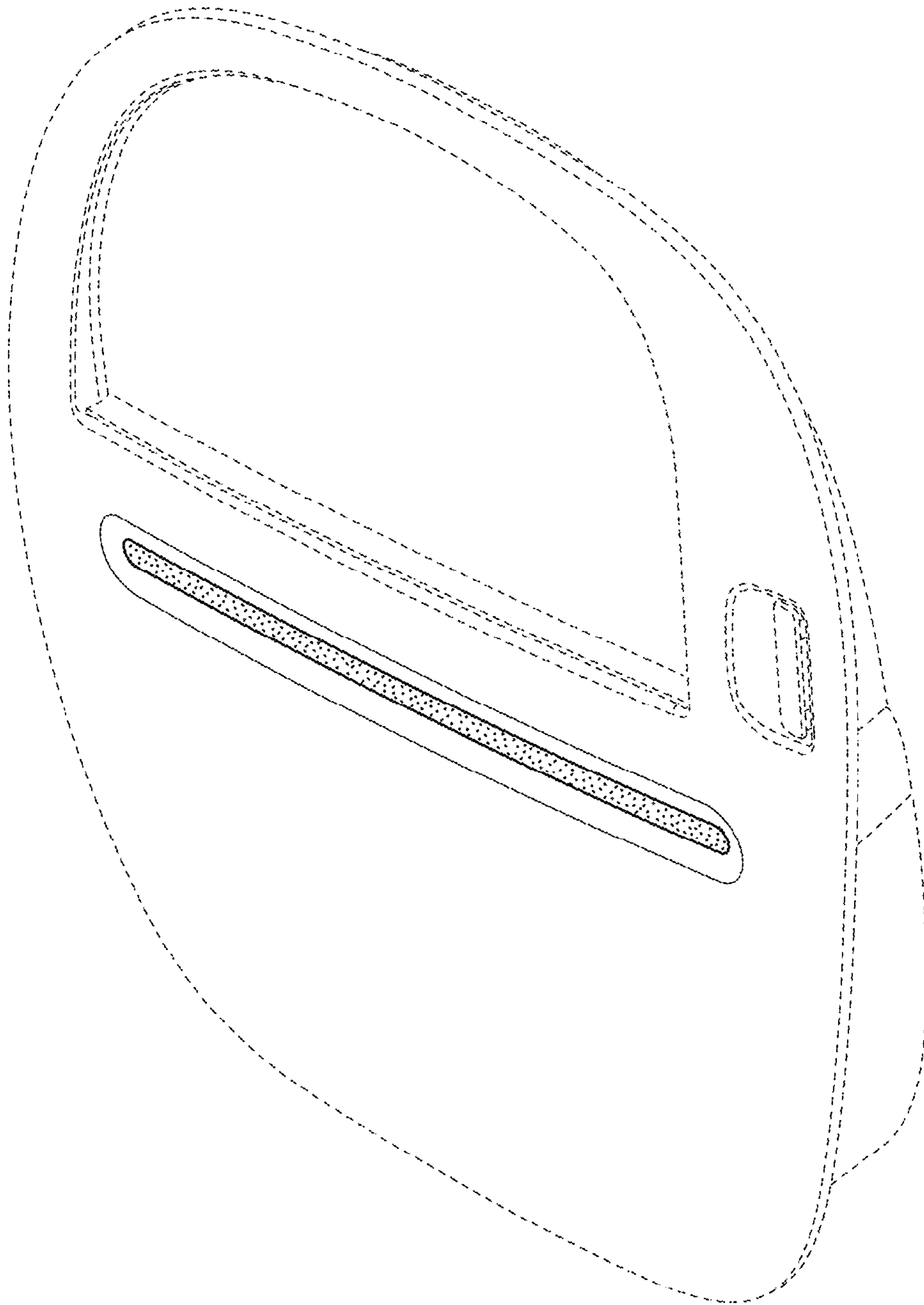


FIG. 1

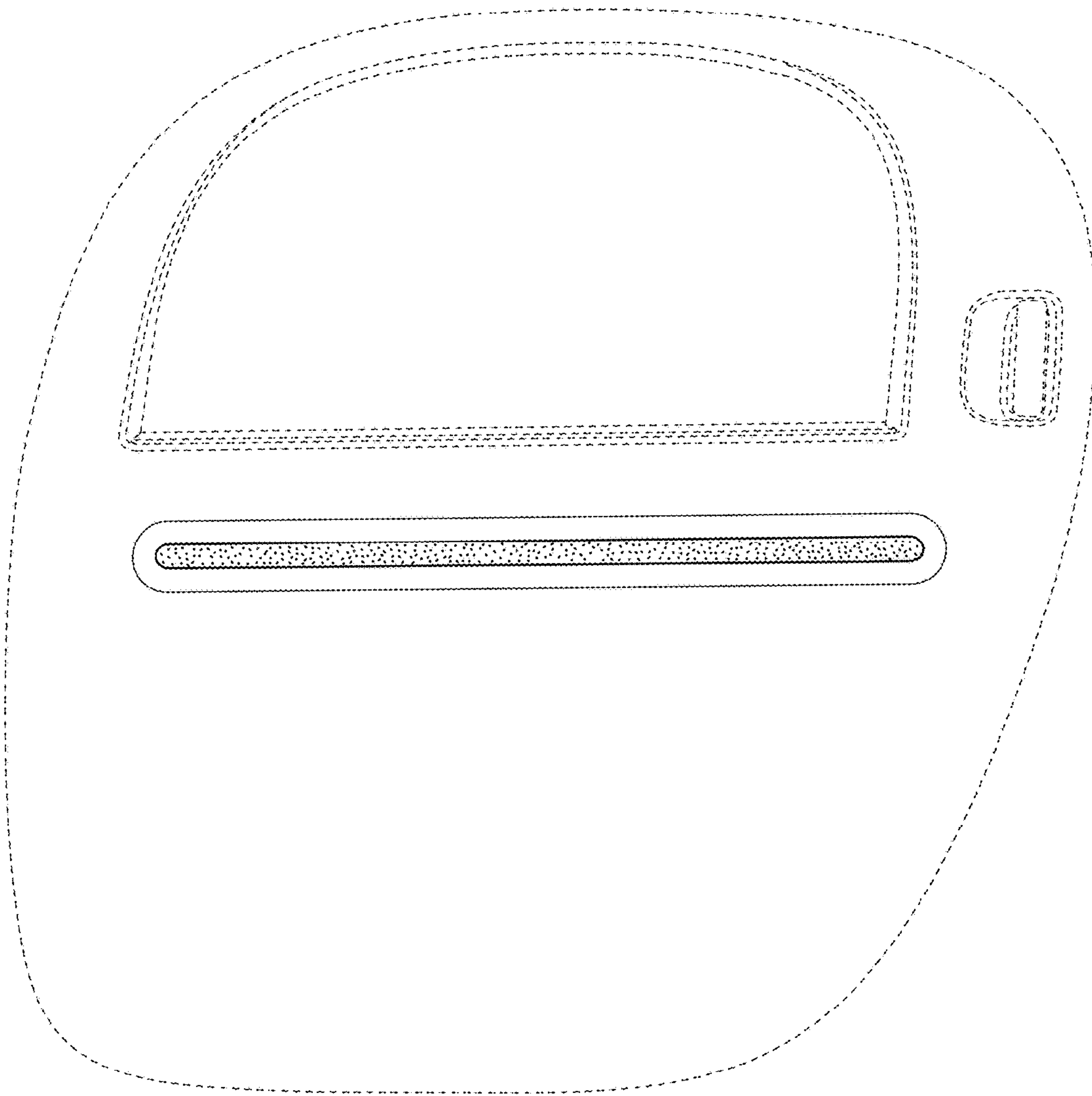


FIG. 2