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

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(54) **DISK BRAKE FRICTION PAD FOR VEHICLES**

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(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**  
USPC ..... **D12/180**

(58) **Field of Classification Search**  
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CPC ..... F16D 65/0972; F16D 65/092; F16D 65/0006; F16D 65/0971; F16D 2200/0056  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D506,423 S *	6/2005	Matsumoto	.....	D12/180
D507,773 S *	7/2005	Ono	.....	D12/180
D631,410 S *	1/2011	Hiramori	.....	D12/180
D631,411 S *	1/2011	Hiramori	.....	D12/180
8,225,911 B2 *	7/2012	Lin	.....	F16D 65/092 188/73.37
D764,987 S *	8/2016	Radhakrishnan	.....	D12/180
D784,222 S *	4/2017	Buxton	.....	D12/180
D787,393 S *	5/2017	Buxton	.....	D12/180
10,041,554 B2 *	8/2018	Ishikawa	.....	F16D 65/0971

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP H06-85937 U 12/1994  
JP D 981432 S 5/1997

(Continued)

**OTHER PUBLICATIONS**

“Nissin Pad Type—R (Racing Pad)” Nissin., posted date Jul. 10, 2017 [online], [retrieved on Dec. 8, 2021]. Retrieved from the Internet <URL:http://nissinbrakeperformance.com/nissinpadtype-r/> (Year: 2017).\*

(Continued)

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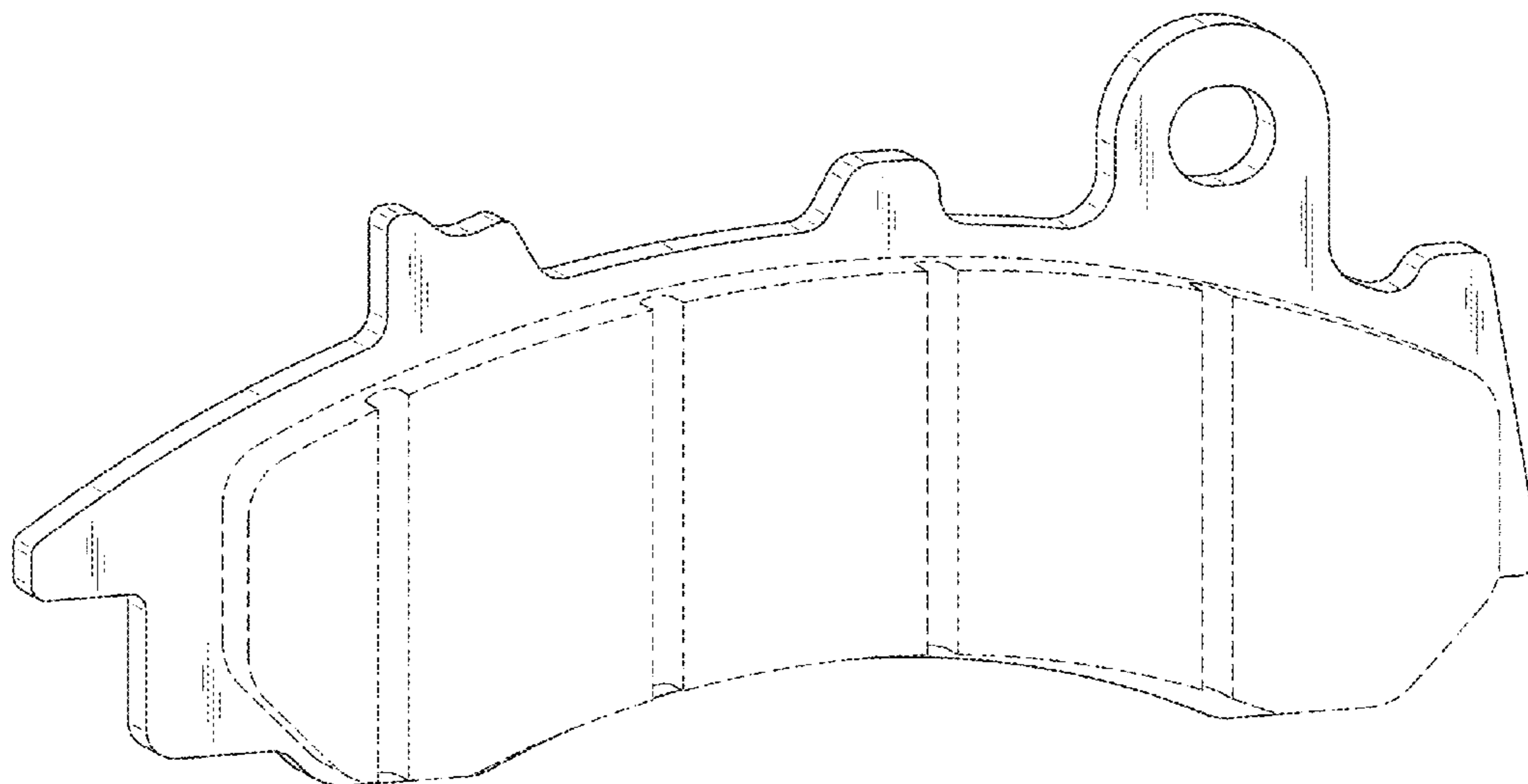
(57) **CLAIM**

The ornamental design for a disk brake friction pad for vehicles, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a disk brake friction pad for vehicles, showing my new design; FIG. 2 is a rear elevational view thereof; FIG. 3 is a top plan view thereof; FIG. 4 is a bottom plan view thereof; FIG. 5 is a right side elevational view thereof; FIG. 6 is a left side elevational view thereof; FIG. 7 is a cross-sectional view thereof, taken along line 7-7 of FIG. 1; and, FIG. 8 is a front perspective view thereof. The broken lines shown in the drawings illustrate portions of the disk brake friction pad for vehicles that are environmental structures and form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

10,487,894	B2 *	11/2019	Meggiolan .....	B32B 15/14
11,098,772	B2 *	8/2021	Aonuma .....	F16D 55/228
2005/0067235	A1 *	3/2005	Pham .....	F16D 65/0971 188/250 B
2006/0157307	A1 *	7/2006	Tsurumi .....	F16D 65/0971 188/250 G
2009/0014262	A1 *	1/2009	Camilo-Martinez .....	F16D 65/095 188/2 R
2009/0032343	A1 *	2/2009	Liu .....	F16D 65/092 188/250 B
2010/0243385	A1 *	9/2010	Kaneko .....	F16D 65/0972 188/73.31
2014/0360822	A1 *	12/2014	Kobayashi .....	F16D 65/0971 188/250 E

FOREIGN PATENT DOCUMENTS

JP	D 981432-1	S	9/1997
JP	D 1151625	S	9/2002
JP	2013-177908	A	9/2013

OTHER PUBLICATIONS

“RP-X™ Racing Brake Pads” EBC Brakes., posted date May 8, 2020 [online], [retrieved on Dec. 8, 2021]. Retrieved from the Internet <URL:https://ebcbrakes.com/products/rp-x-racing-brake-pads/> (Year: 2020).\*

“ACDelco 14D562CH Advantage Ceramic Front Disc Brake Pad Set” ACDelco., posted date Jun. 8, 2014 [online], [retrieved on Dec. 8, 2021]. Retrieved from the Internet <URL:https://www.amazon.com/ACDelco-14D562CH-Advantage-Ceramic-Front/dp/B00KULEN3E> (Year: 2014).\*

“Nissin® NPO-160W-SA—Semi-Metallic Front Disc Brake Pads” Nissin., posted date Feb. 27, 2018 [online], [retrieved on Dec. 8, 2021]. Retrieved from the Internet <URL:https://www.carid.com/zimmermann/coat-z-drilled-and-slotted-brake-rotor.html> (Year: 2018).\* Decision to Grand Design Registration Dec. 18, 2020, issued in counterpart JP Application No. 2020-007188, with brief English translation.

\* cited by examiner

FIG. 1

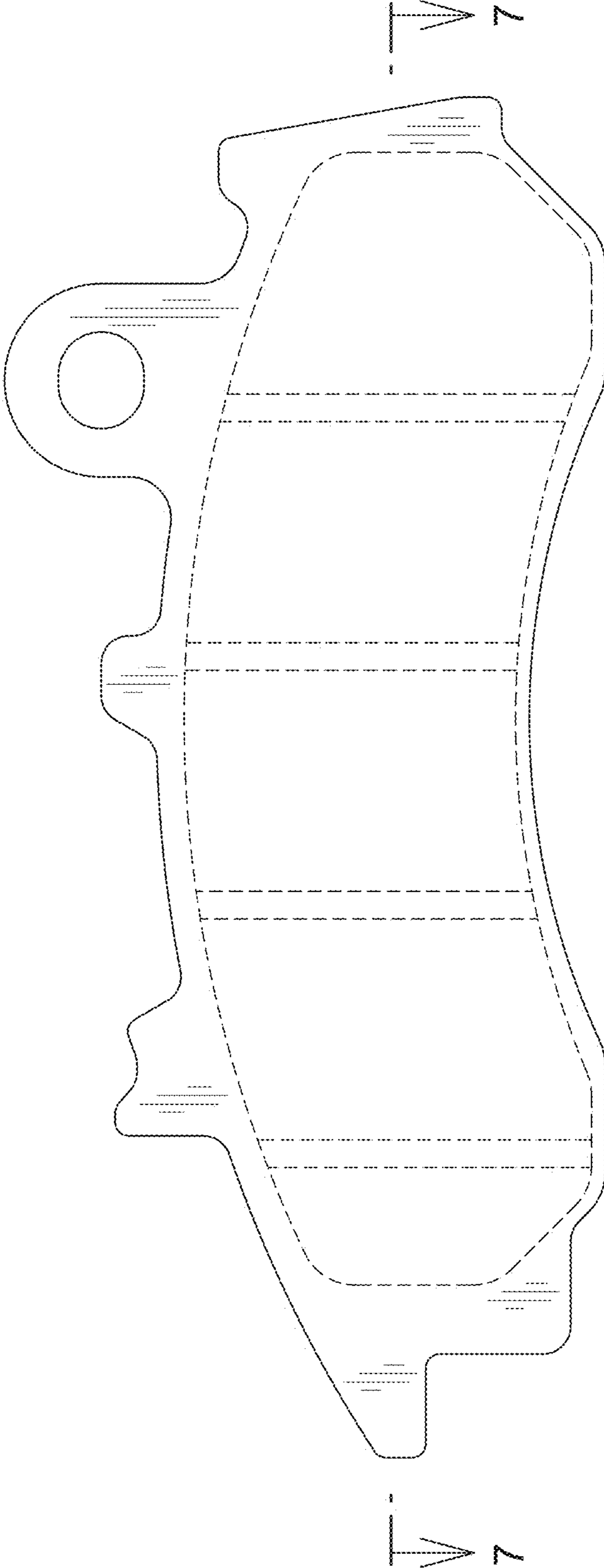


FIG. 2

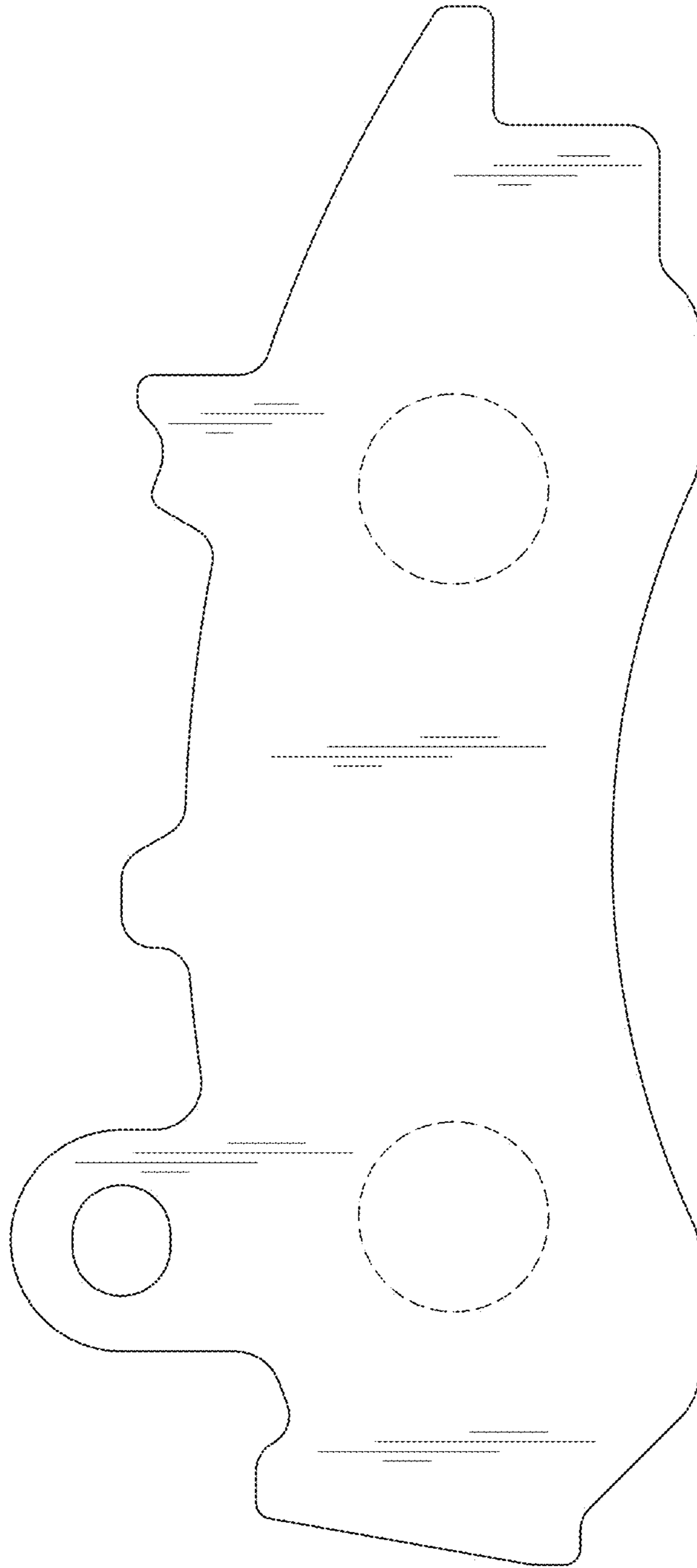


FIG. 3

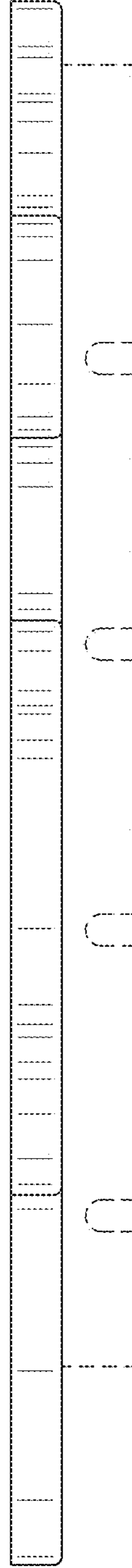


FIG. 4

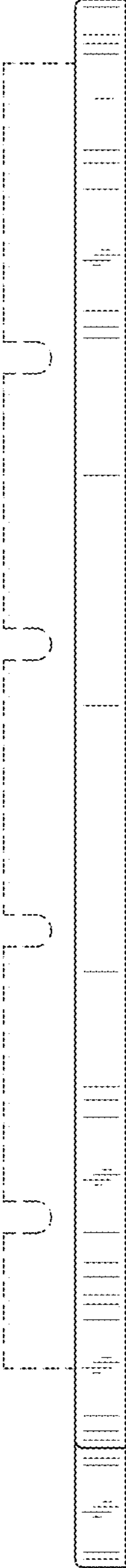


FIG. 5

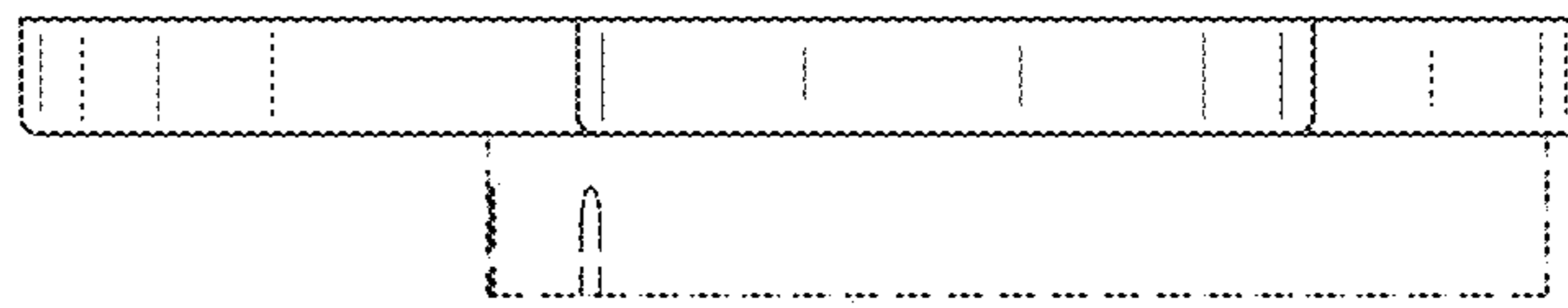


FIG. 6

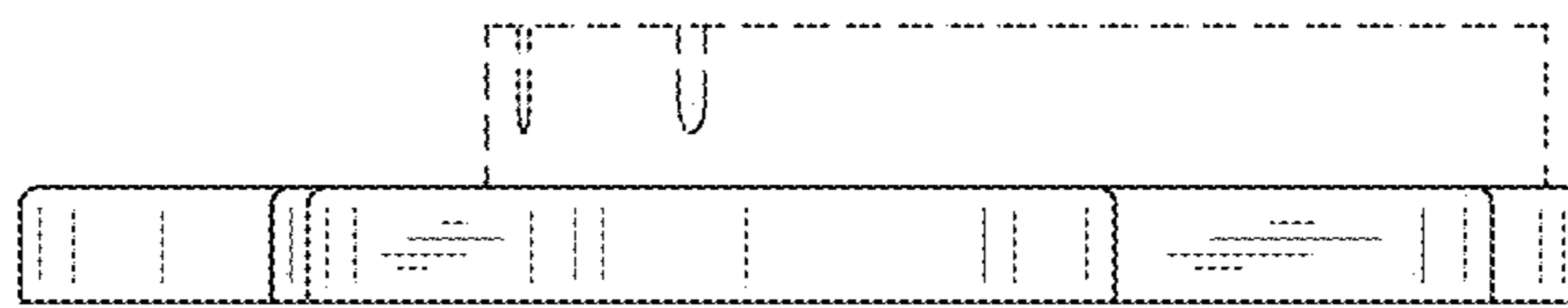




FIG. 7

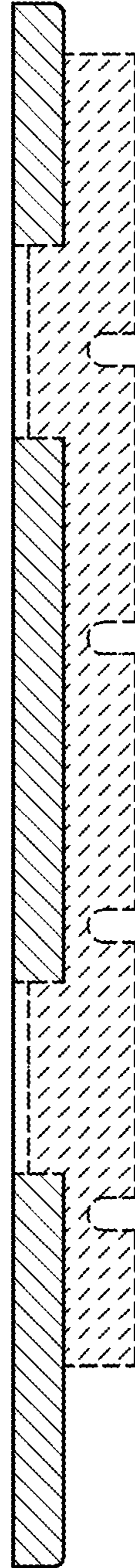


FIG. 8

