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(12) United States Design Patent

Johansson et al.

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(54) **TURBINE BLADE**

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

(21) Appl. No.: **29/749,373**

(22) Filed: **Sep. 4, 2020**

(51) **LOC (13) Cl.** **13-01**

(52) **U.S. Cl.**
USPC **D13/122**; D13/115

(58) **Field of Classification Search**
USPC D13/101, 112, 114, 115, 118, 122, 199; D12/344, 345
CPC .. F05D 2250/14; F05D 2250/71; B23P 15/02; F01D 5/14; F01D 5/16; F01D 5/18; F01D 5/28; F01D 5/147; F01D 5/186; F01D 5/187; F01D 11/006; F01D 11/008; F01D 11/08
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,924,706	A *	5/1990	Moore	G01H 13/00 73/579
D598,376	S *	8/2009	Cheung	D13/115
D675,983	S *	2/2013	Berdan	D13/115
D715,736	S *	10/2014	Gong	D13/112
9,394,793	B1 *	7/2016	Atkins	F01D 5/16
D770,383	S *	11/2016	Lurie	D13/115
10,287,898	B2	5/2019	Bluck	
D869,395	S *	12/2019	Huang	D13/115
2008/0181779	A1 *	7/2008	Decardenas	F01D 5/22 416/219 R
2008/0286108	A1 *	11/2008	Lui	F01D 5/20 416/229 R
2010/0074759	A1 *	3/2010	Dierksmeier	F01D 5/147 416/241 B
2010/0239409	A1 *	9/2010	Draper	F01D 5/005 415/1

(Continued)

FOREIGN PATENT DOCUMENTS

IN	249388	B	1/2008
WO	2018036719	A1	3/2018

Primary Examiner — Derrick E Holland

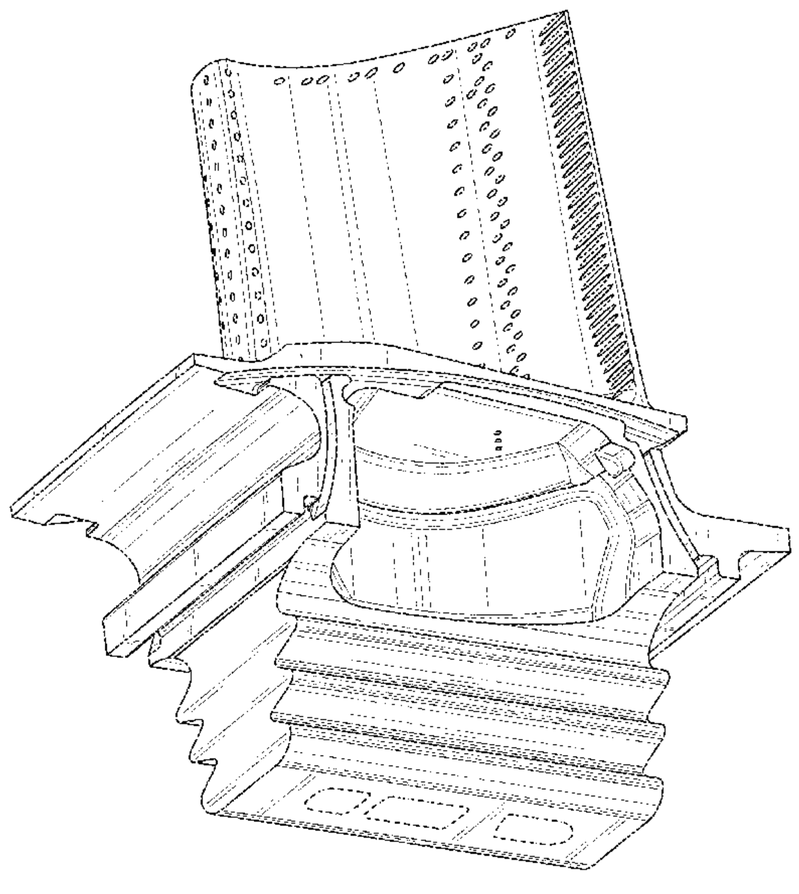
(57) **CLAIM**

We claim the ornamental design for a turbine blade, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a first embodiment of a turbine blade showing the new design.
FIG. **2** is a right side view of the turbine blade of FIG. **1**.
FIG. **3** is a left side view of the turbine blade of FIG. **1**.
FIG. **4** is a front view of the turbine blade of FIG. **1**.
FIG. **5** is a rear view of the turbine blade of FIG. **1**.
FIG. **6** is a top view of the turbine blade of FIG. **1**.
FIG. **7** is a bottom view of the turbine blade of FIG. **1**.
FIG. **8** is a perspective view of a second embodiment of a turbine blade showing the new design.
FIG. **9** is a right side view of the turbine blade of FIG. **8**.
FIG. **10** is a left side view of the turbine blade of FIG. **8**.
FIG. **11** is a front view of the turbine blade of FIG. **8**.
FIG. **12** is a rear view of the turbine blade of FIG. **8**.
FIG. **13** is a top view of the turbine blade of FIG. **8**; and,
FIG. **14** is a bottom view of the turbine blade of FIG. **8**.
The broken lines shown represent the portions of the turbine blade that form no part of the claimed design.

1 Claim, 14 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

2011/0243749	A1*	10/2011	Praisner	F01D 5/225 416/223 A
2011/0293436	A1*	12/2011	Di Florio	F01D 5/16 416/233
2015/0089809	A1*	4/2015	Guo	B23P 15/02 29/889.7
2015/0354366	A1*	12/2015	Simpson	F01D 5/147 60/772
2019/0368359	A1*	12/2019	Quach	F01D 5/187
2020/0063570	A1*	2/2020	Parker	F01D 5/225

* cited by examiner

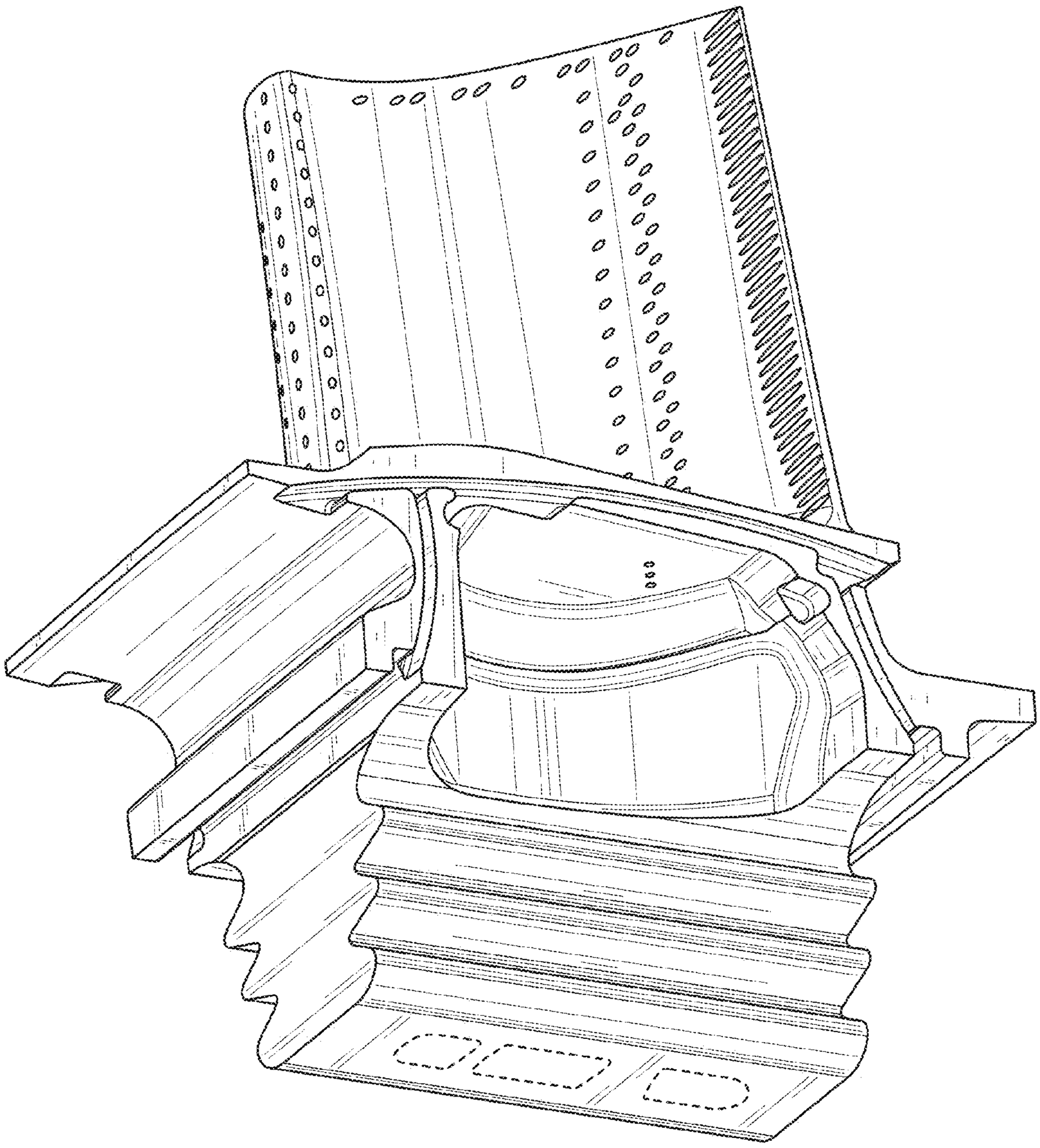


FIG. 1

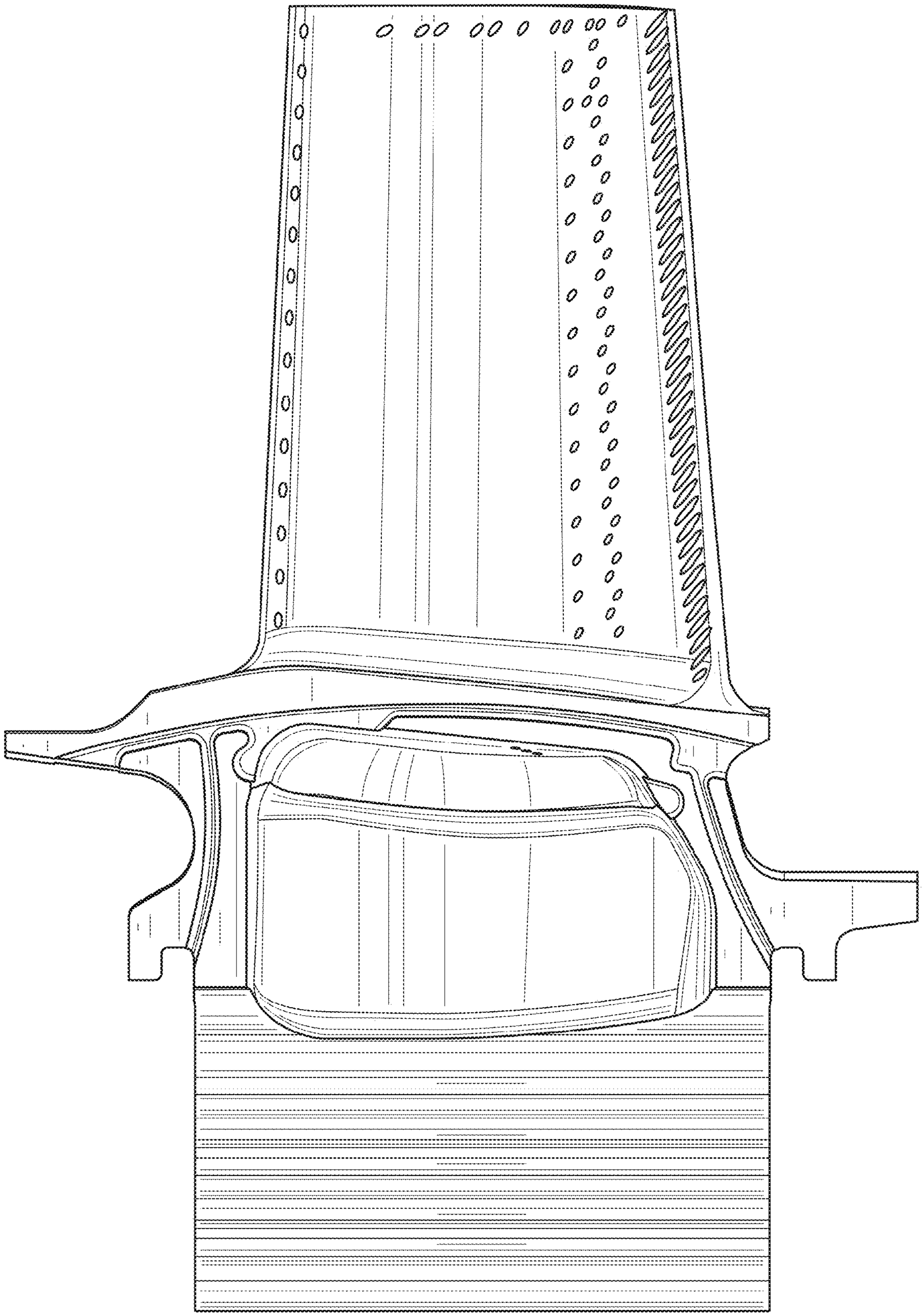


FIG. 2

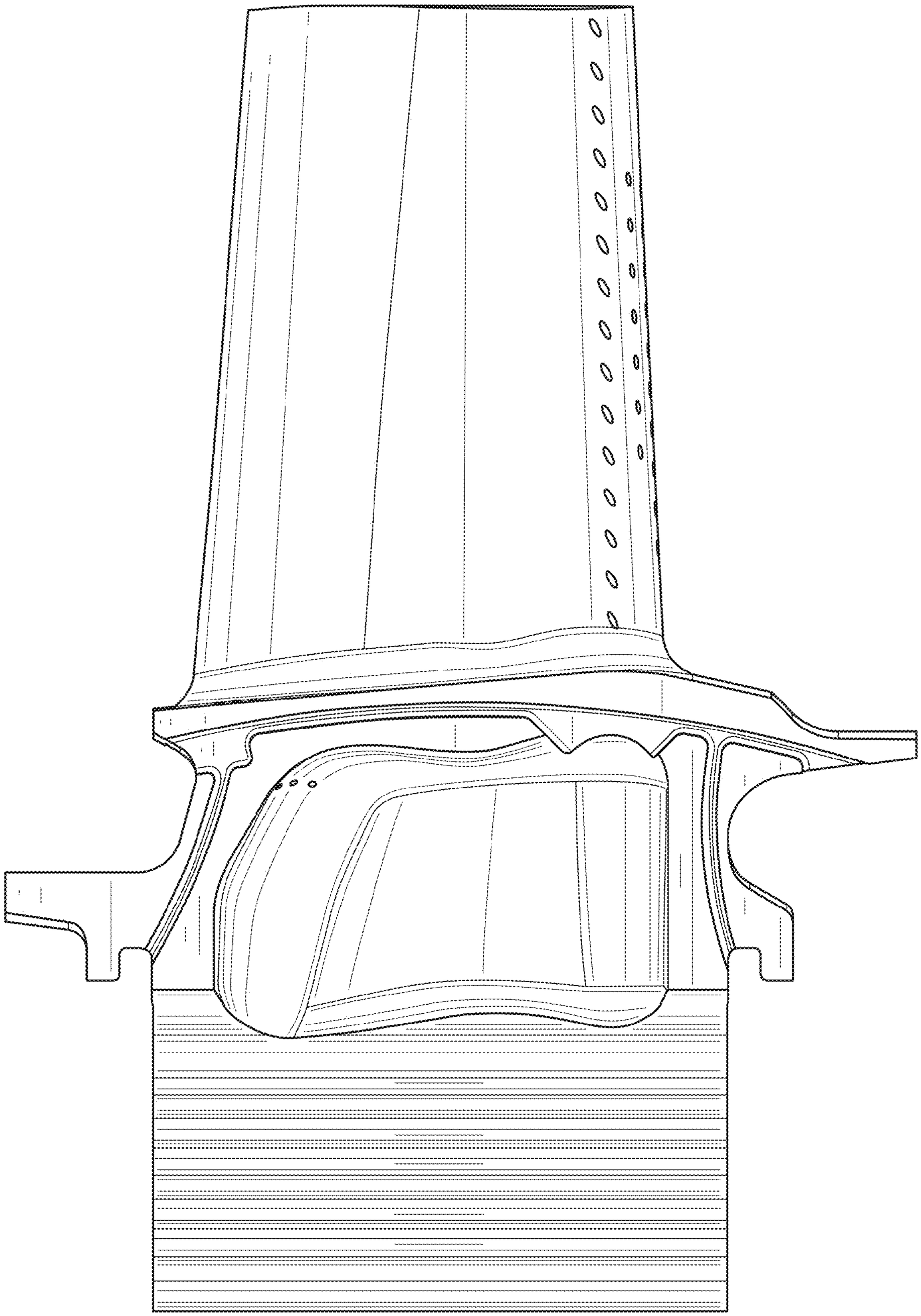


FIG. 3

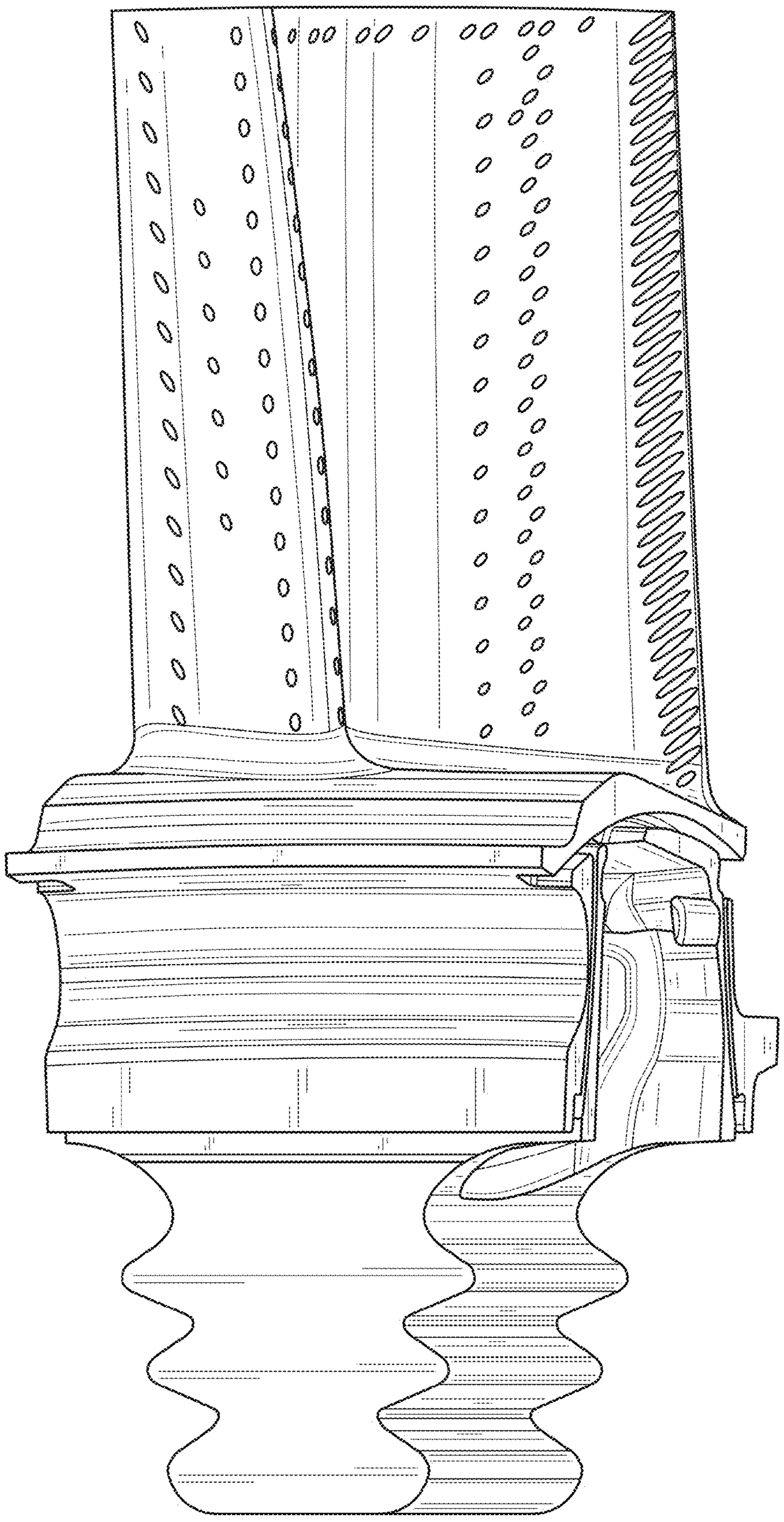


FIG. 4

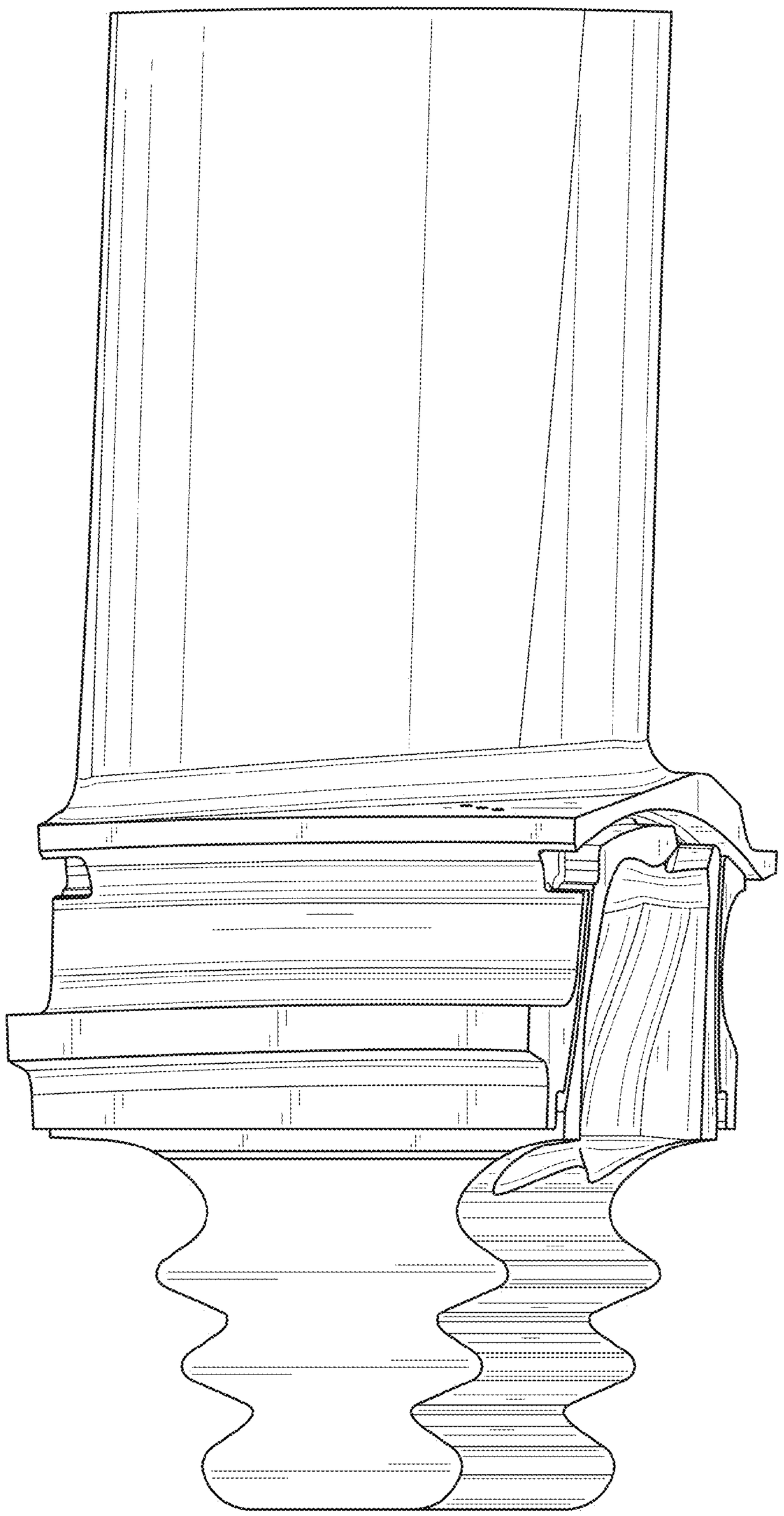


FIG. 5

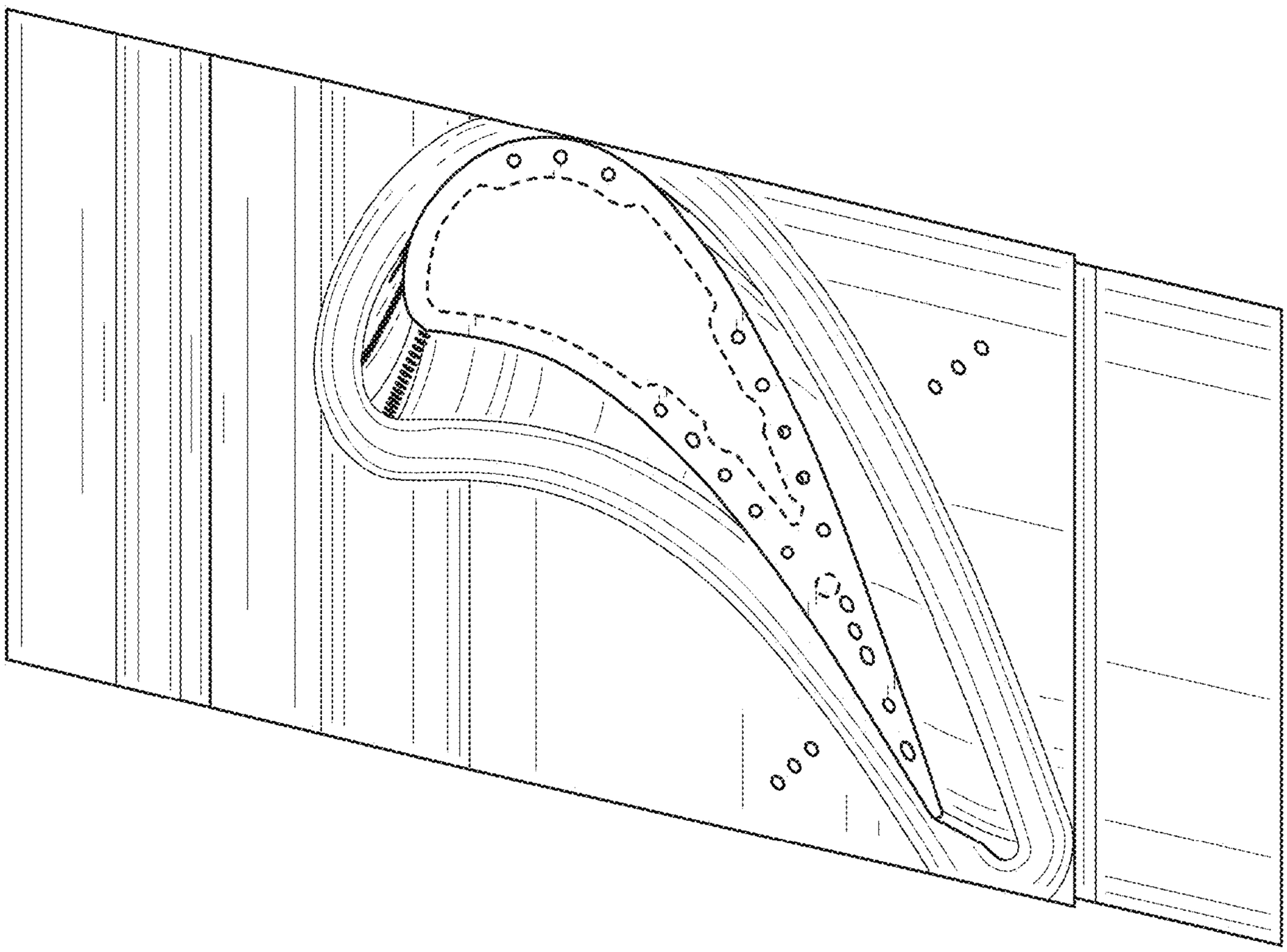


FIG. 6

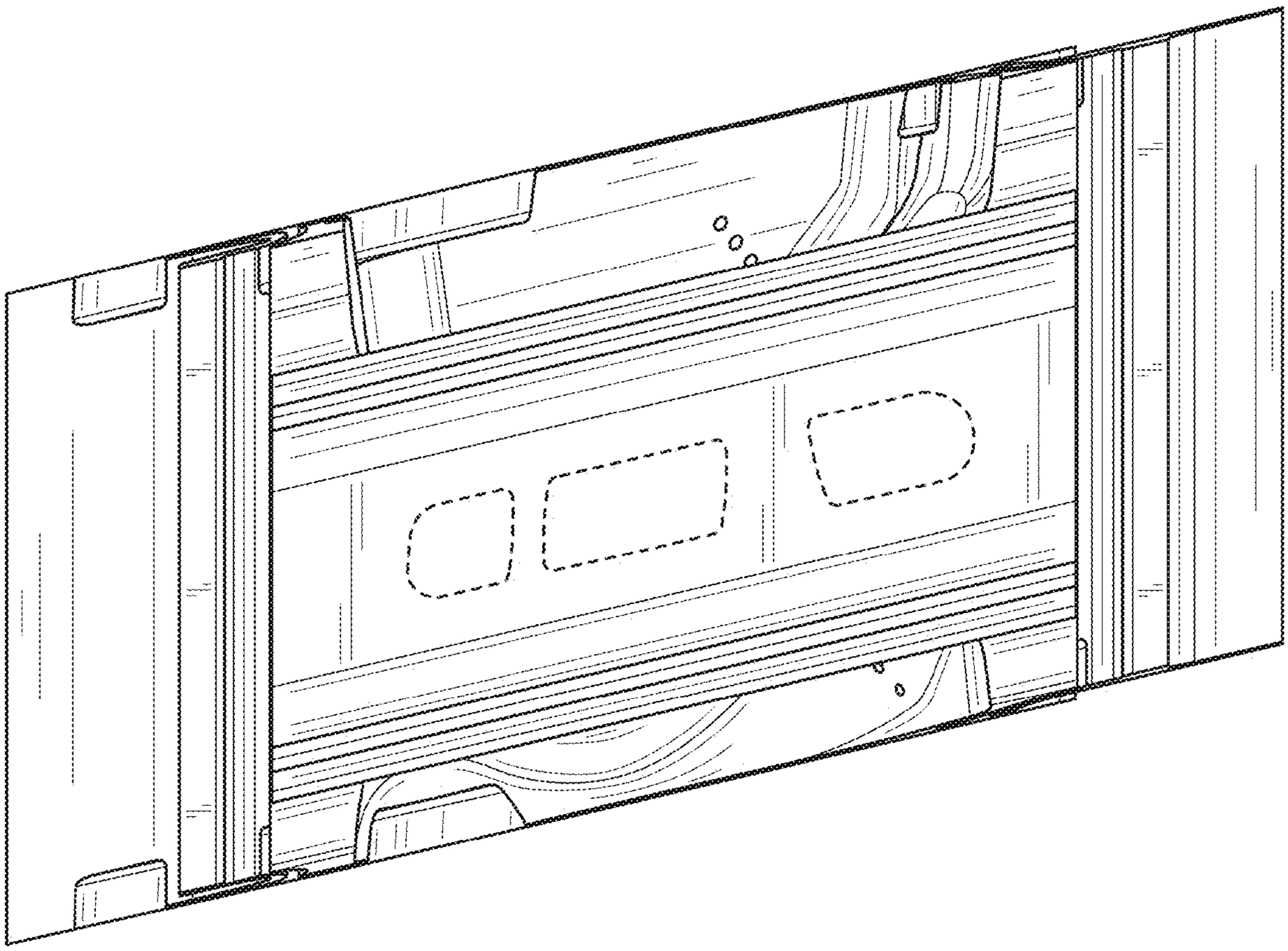


FIG. 7

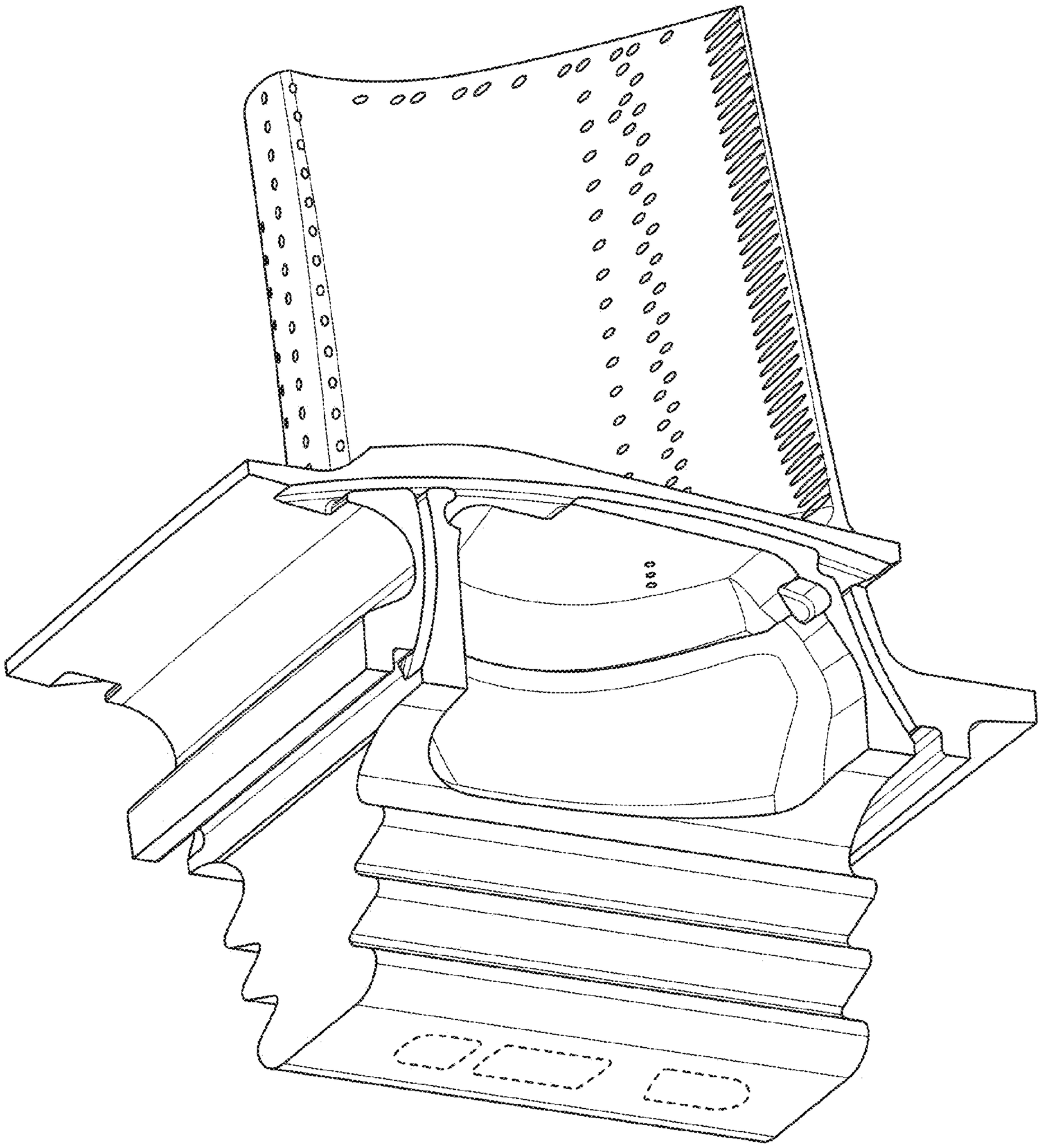


FIG. 8

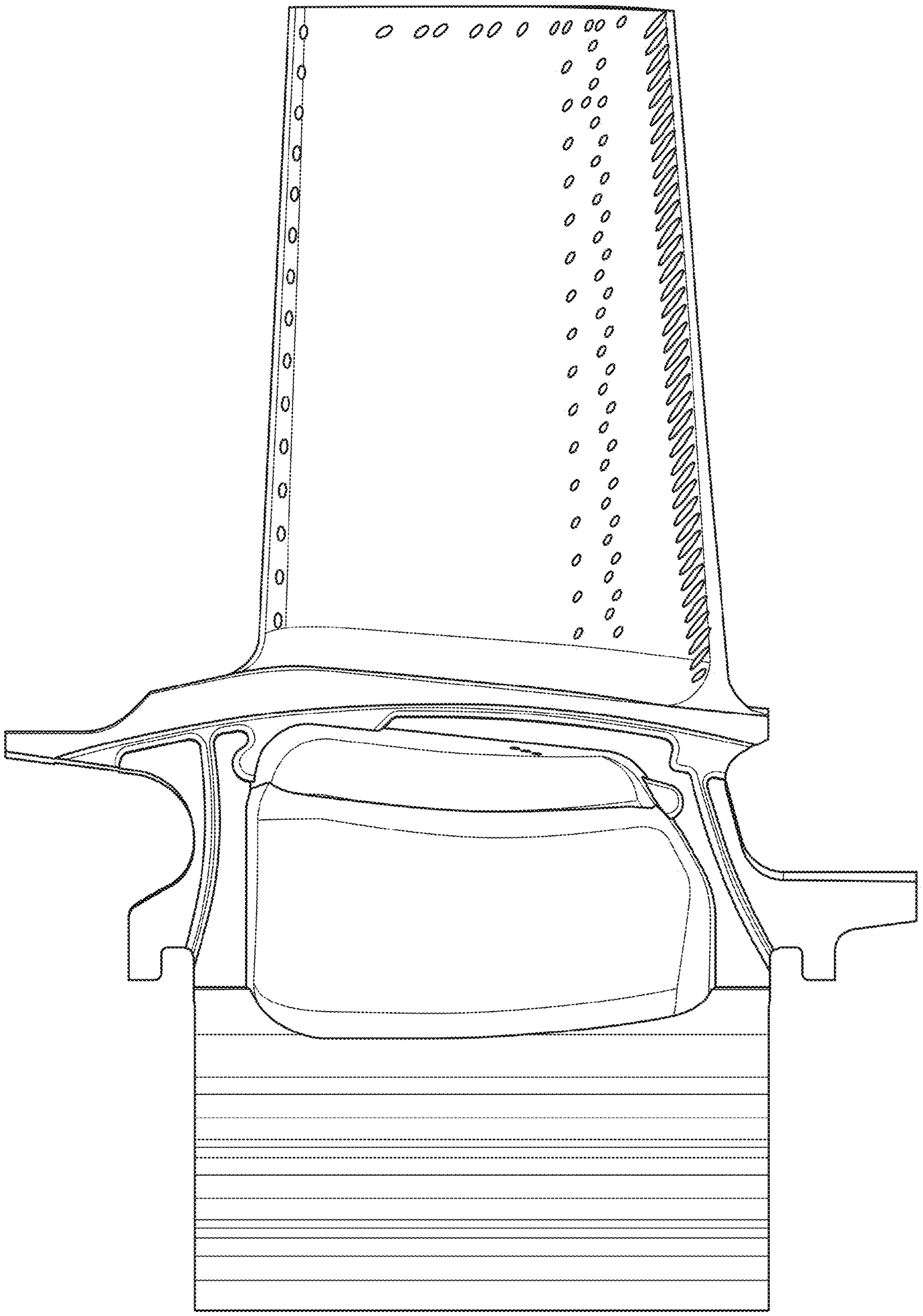


FIG. 9

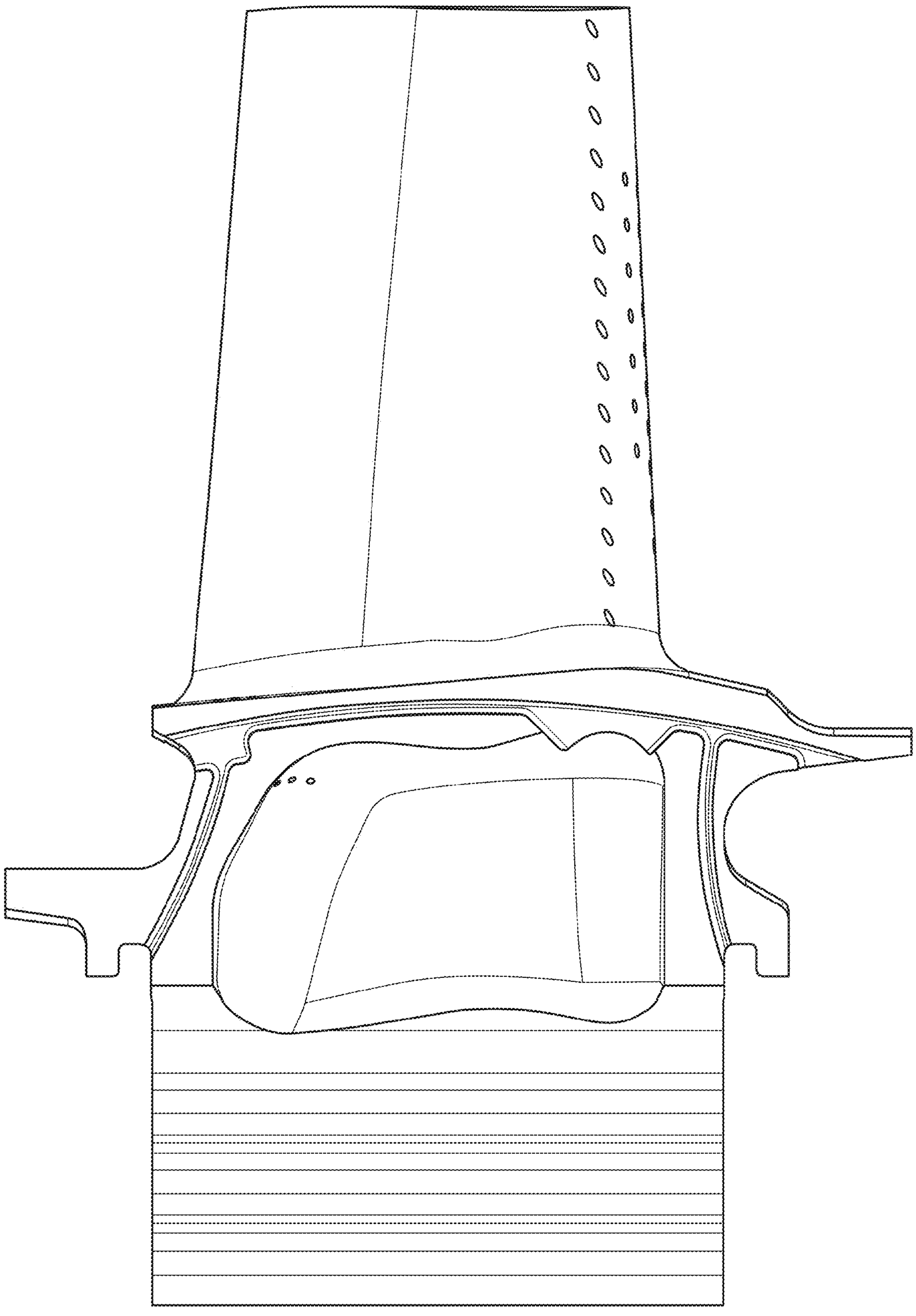


FIG. 10

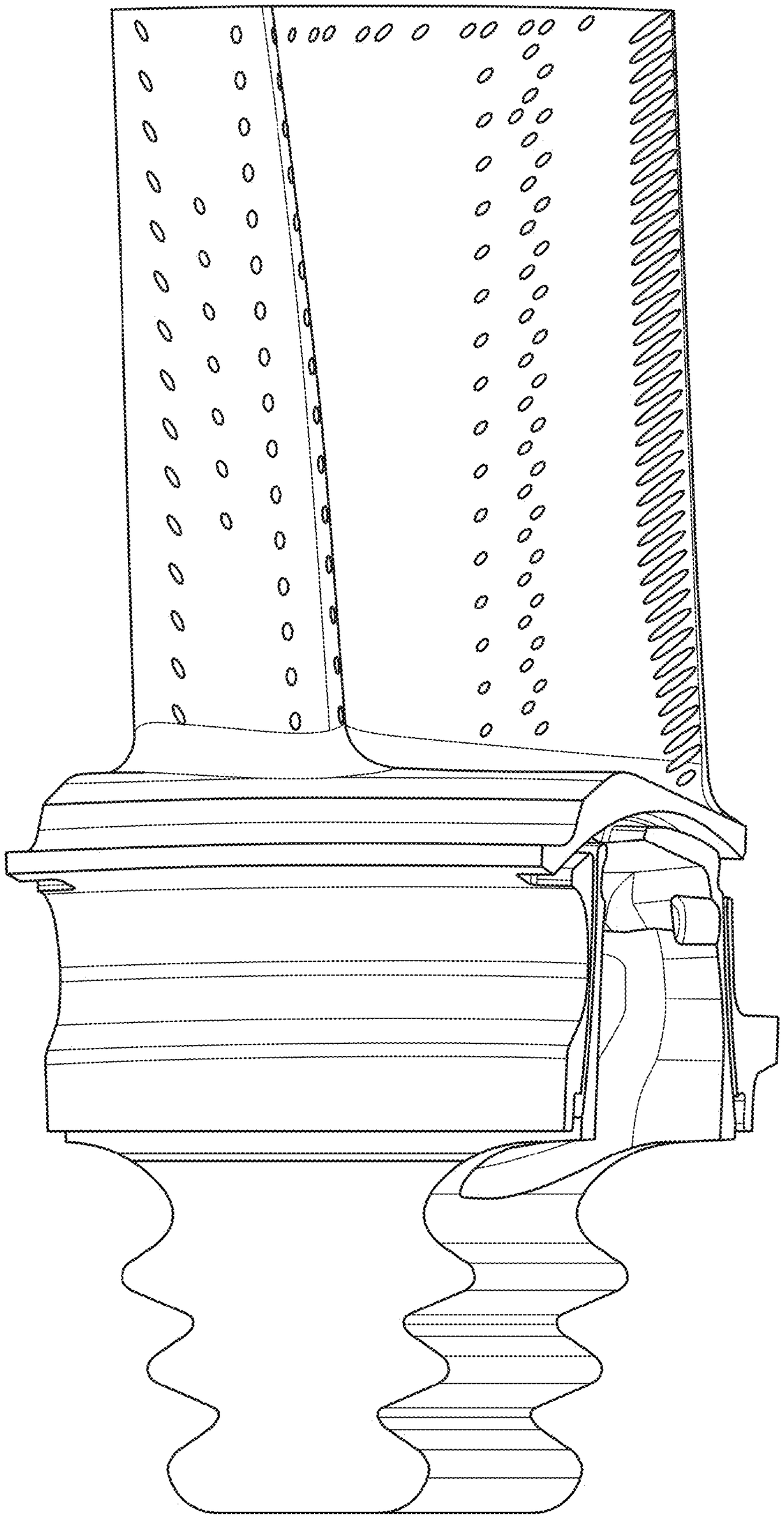


FIG. 11

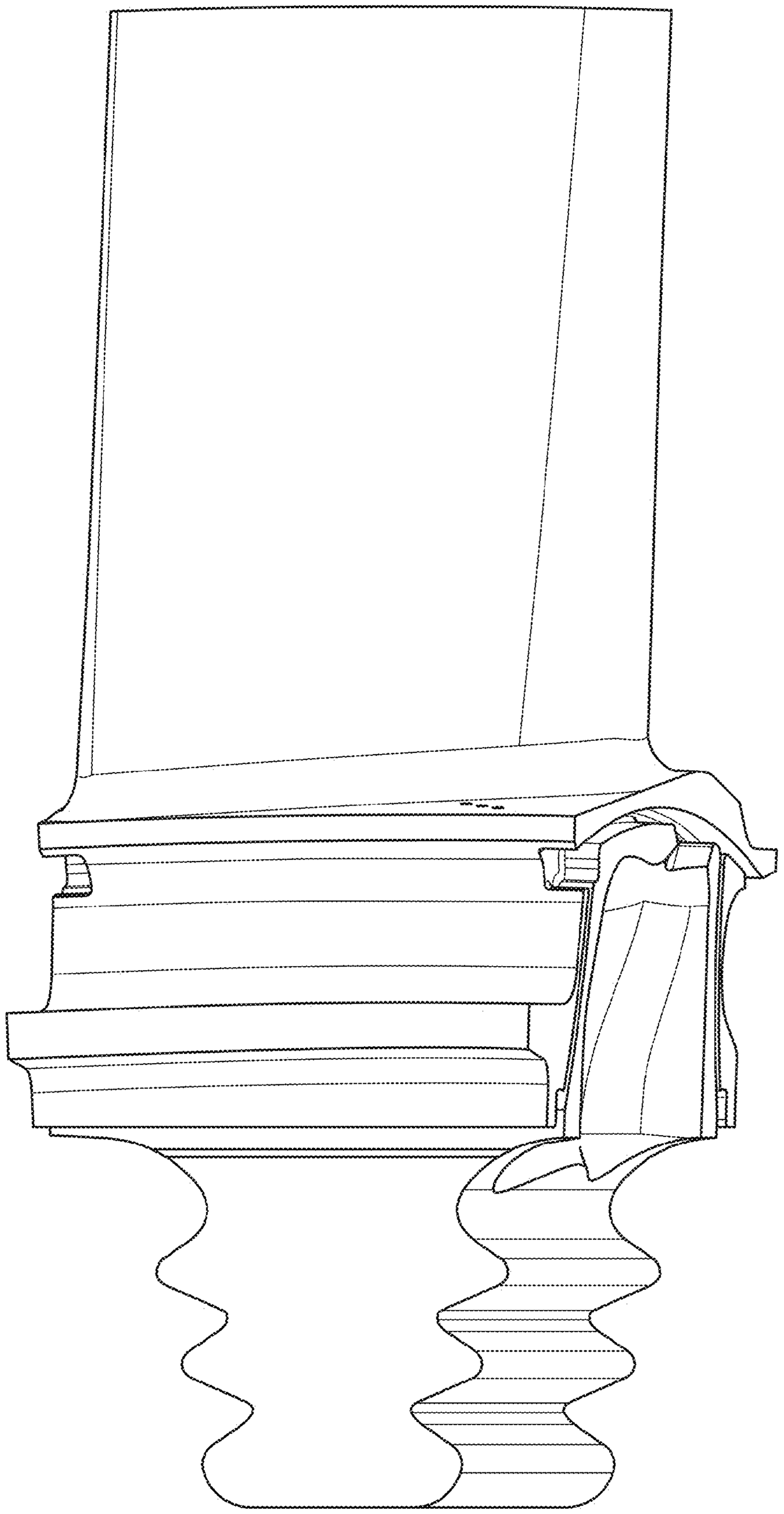


FIG. 12

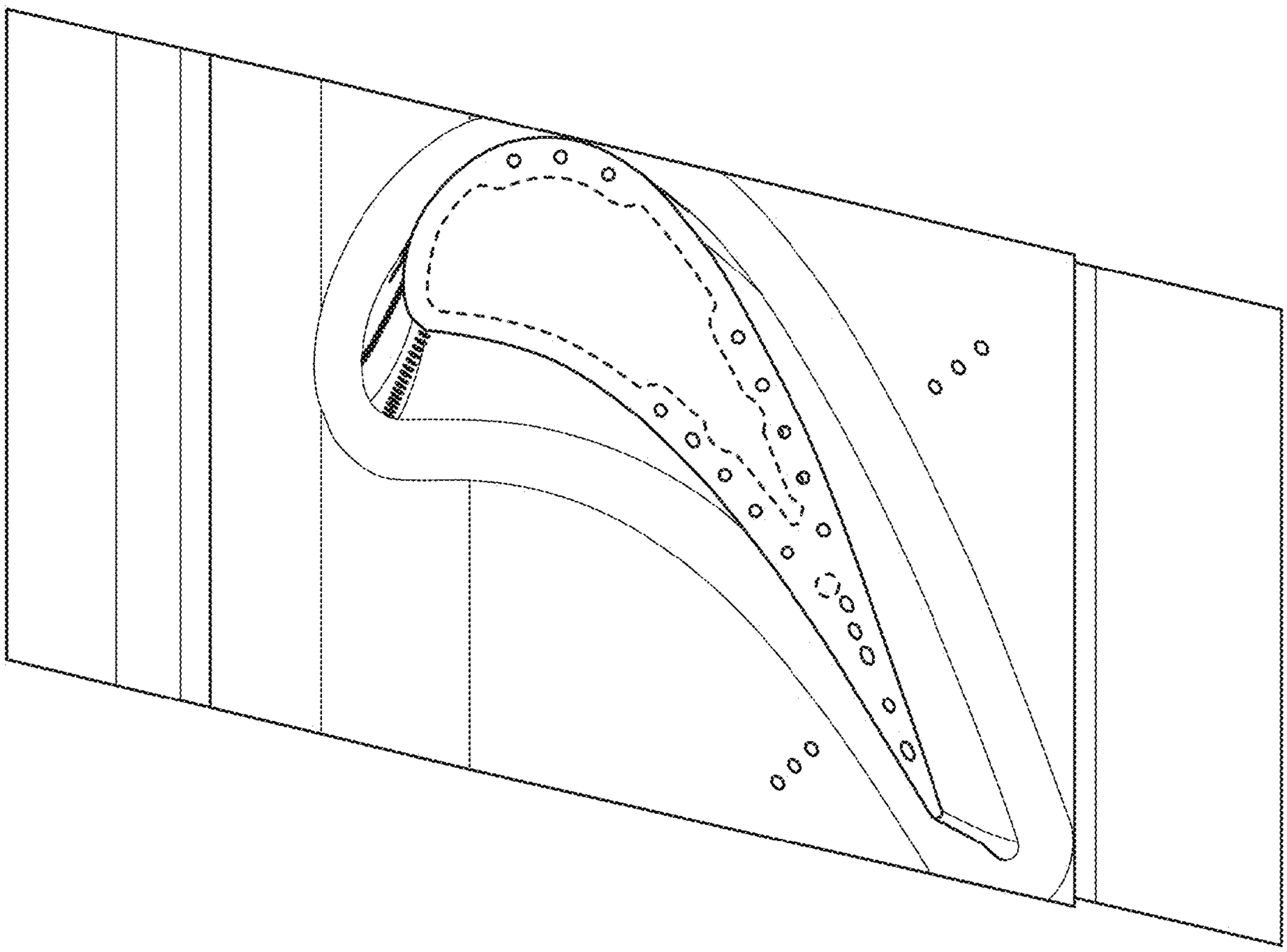


FIG. 13

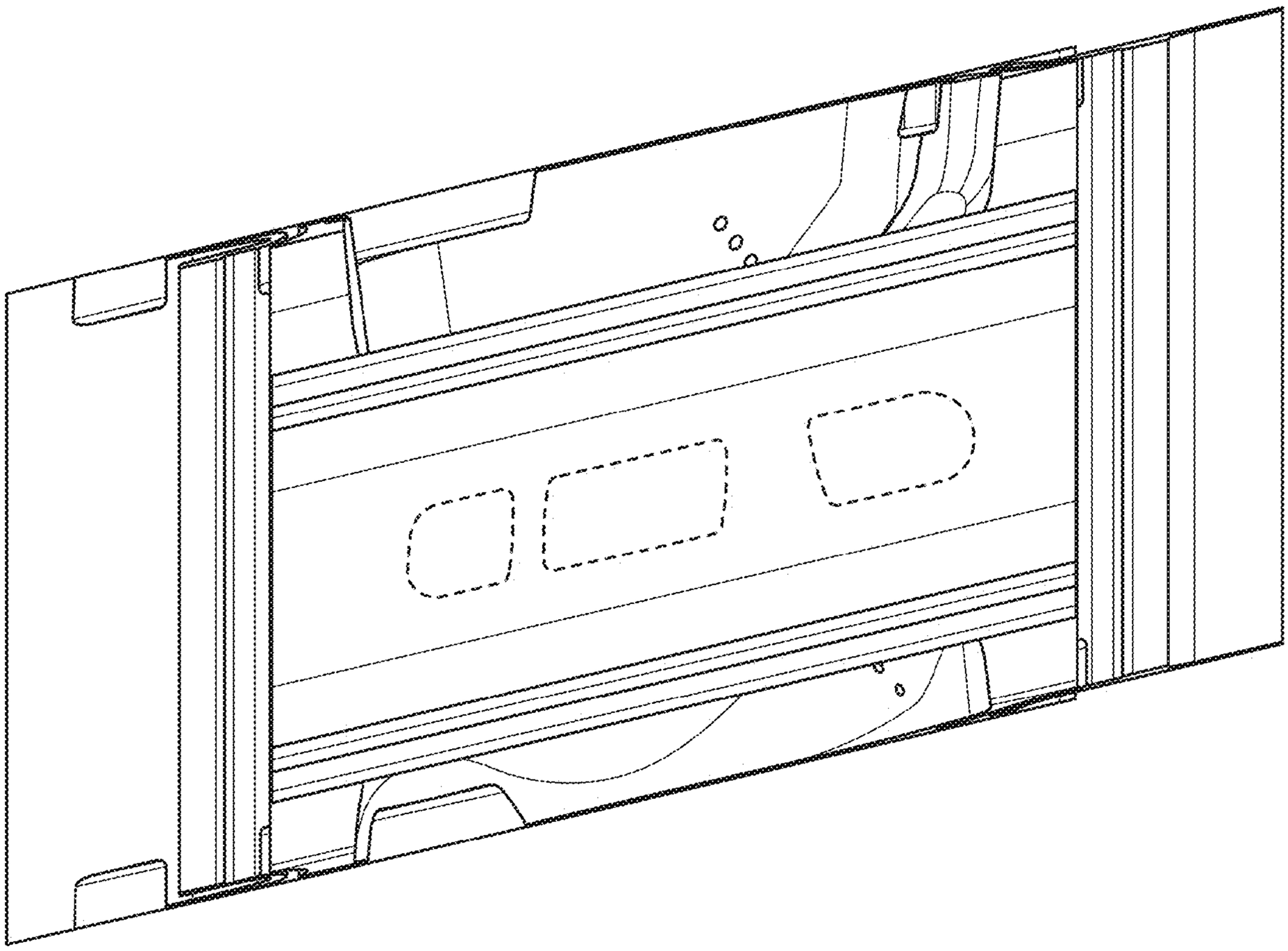


FIG. 14