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(12) **United States Design Patent**  
**Waggoner et al.**

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(54) **EXHAUST MANIFOLD**

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

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(51) **LOC (9) Cl.** ..... **12-16**

(52) **U.S. Cl.** ..... **D12/194**

(58) **Field of Classification Search** ..... D12/194,  
D12/190, 400, 114; D15/5; D21/145; 280/152.1–152.3,  
280/160.1, 304.3, 770, 848, 552; 181/239–243,  
181/227, 249, 255, 228, 247, 252, 284; 60/323,  
60/276, 272; 123/41.73, 41.7, 184.34, 184.36  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,420,933	A *	12/1983	Kajitani et al.	60/302
4,663,934	A *	5/1987	Sickels	60/302
5,272,875	A *	12/1993	Kaji	60/299
D376,602	S *	12/1996	Yamanaka et al.	D15/5
5,867,985	A *	2/1999	Furuhashi et al.	60/323
5,881,554	A *	3/1999	Novak et al.	60/302
5,911,683	A *	6/1999	Cui et al.	60/302

5,930,995	A *	8/1999	Watanabe et al.	60/311
6,605,259	B1 *	8/2003	Henry	422/179
D484,513	S *	12/2003	Grudynski, III	D15/5
6,745,561	B2 *	6/2004	Kim	60/323
6,892,531	B2 *	5/2005	Rim	60/295
6,962,049	B2 *	11/2005	Ashida et al.	60/323

\* cited by examiner

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(57) **CLAIM**

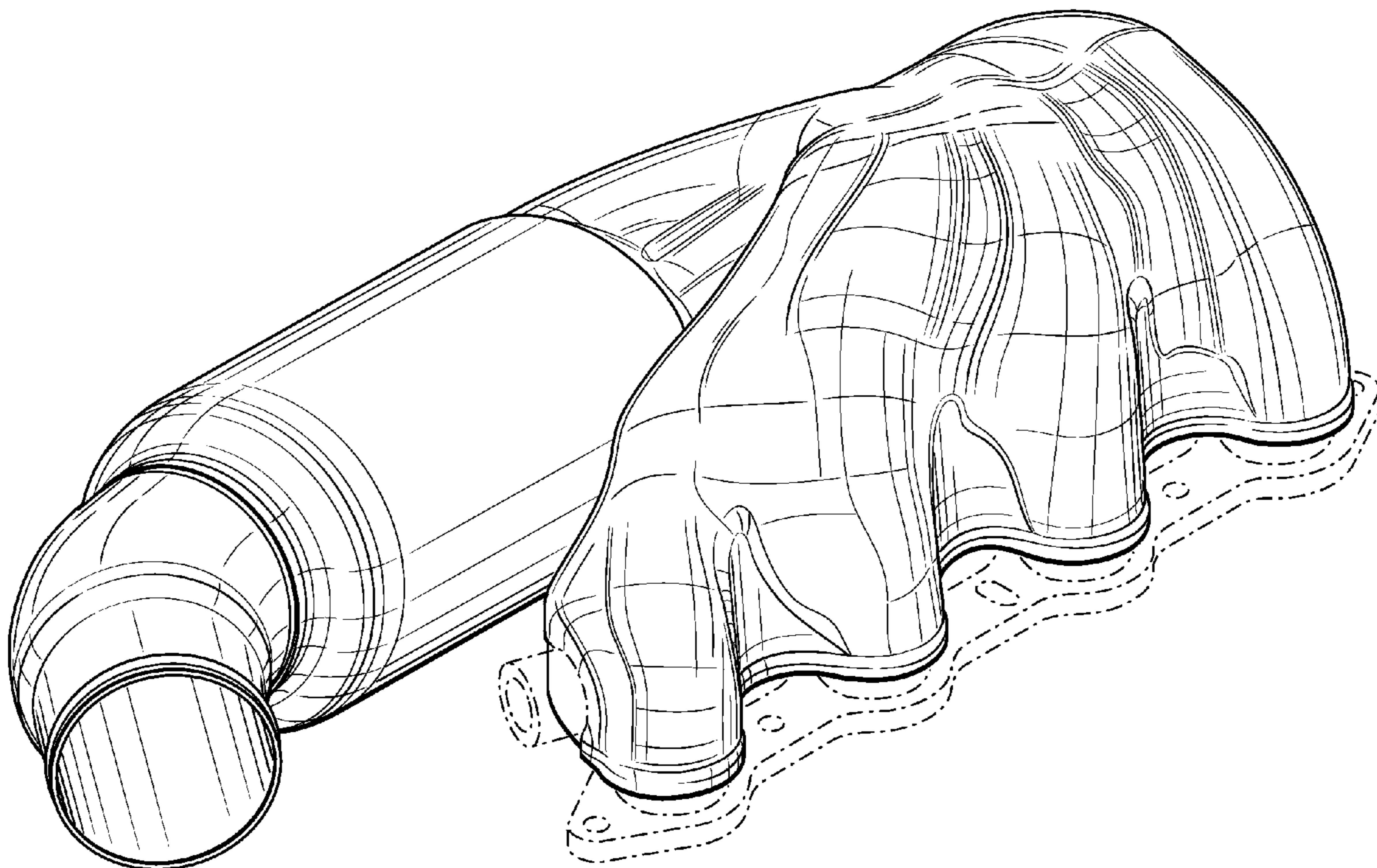
The ornamental design for an exhaust manifold, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of the exhaust manifold;  
FIG. 2 is a rear perspective view of the exhaust manifold of  
FIG. 1;  
FIG. 3 is a front view of the exhaust manifold of FIG. 1;  
FIG. 4 is a rear view of the exhaust manifold of FIG. 1;  
FIG. 5 is a left side view of the exhaust manifold of FIG. 1;  
FIG. 6 is a right side view of the exhaust manifold of FIG. 1;  
FIG. 7 is a top view of the exhaust manifold of FIG. 1; and,  
FIG. 8 is a bottom view of the exhaust manifold of FIG. 1.

The broken lines represent portions of the structure that form no part of the claim.

**1 Claim, 7 Drawing Sheets**



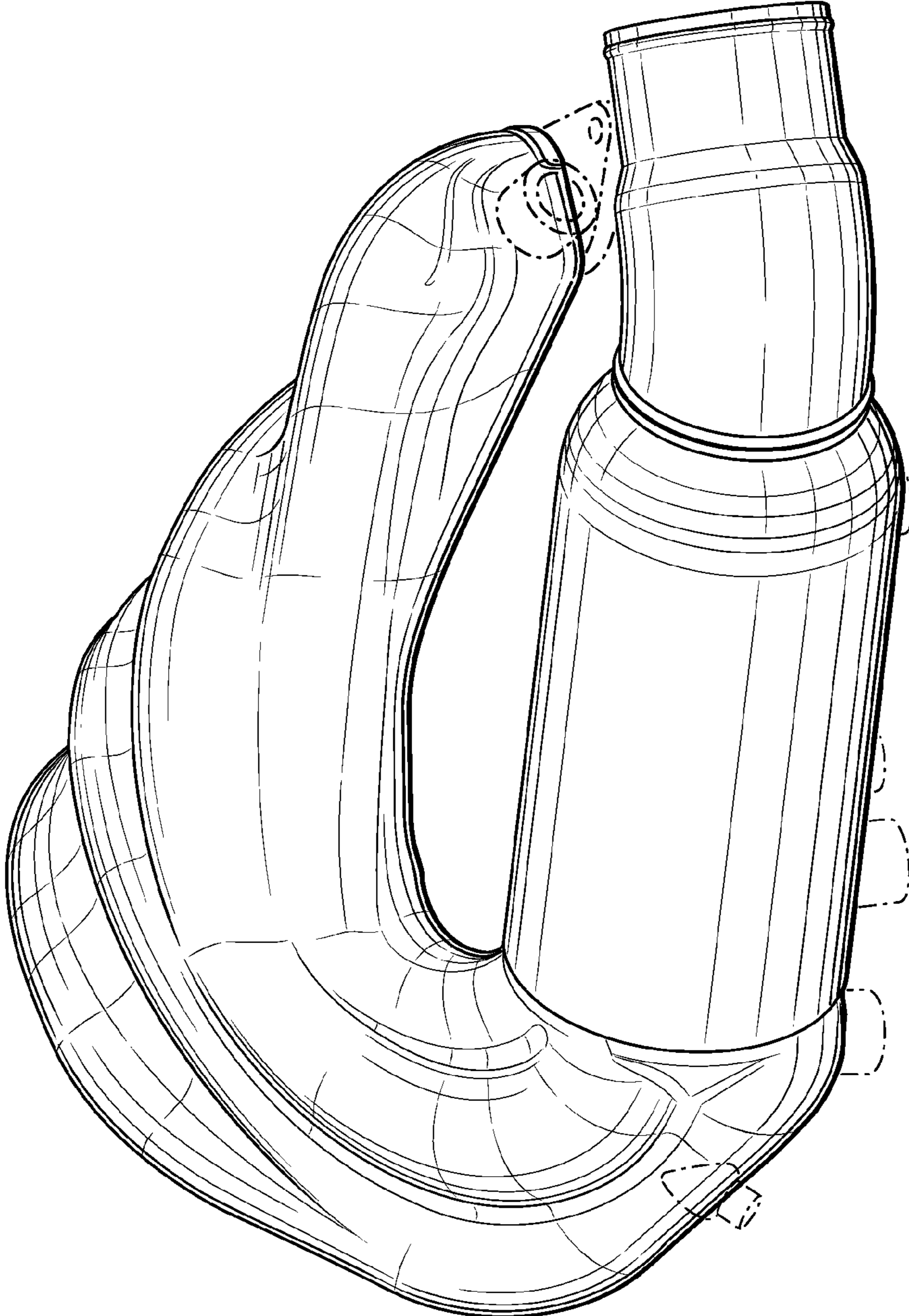


FIG. 1



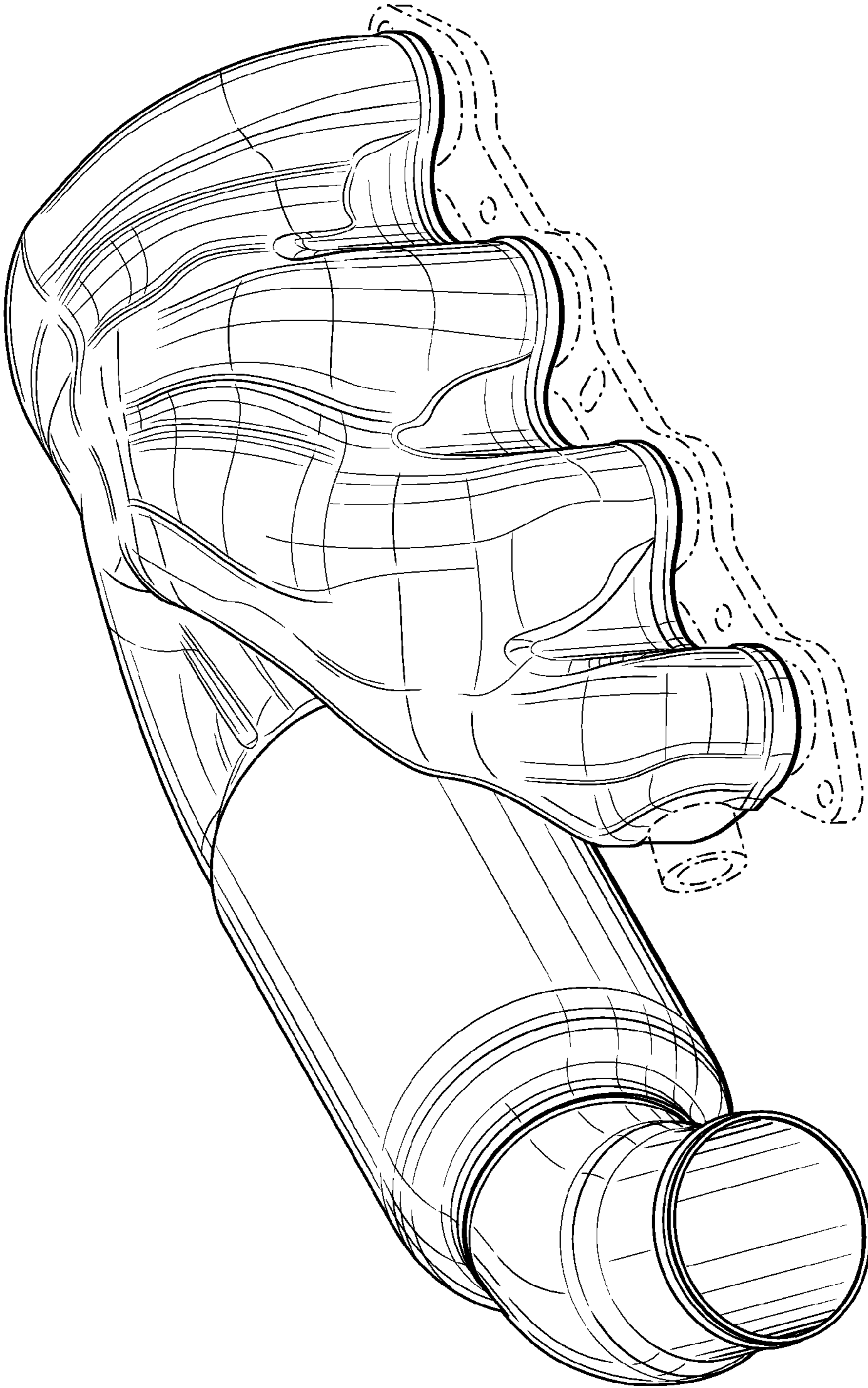


FIG. 2

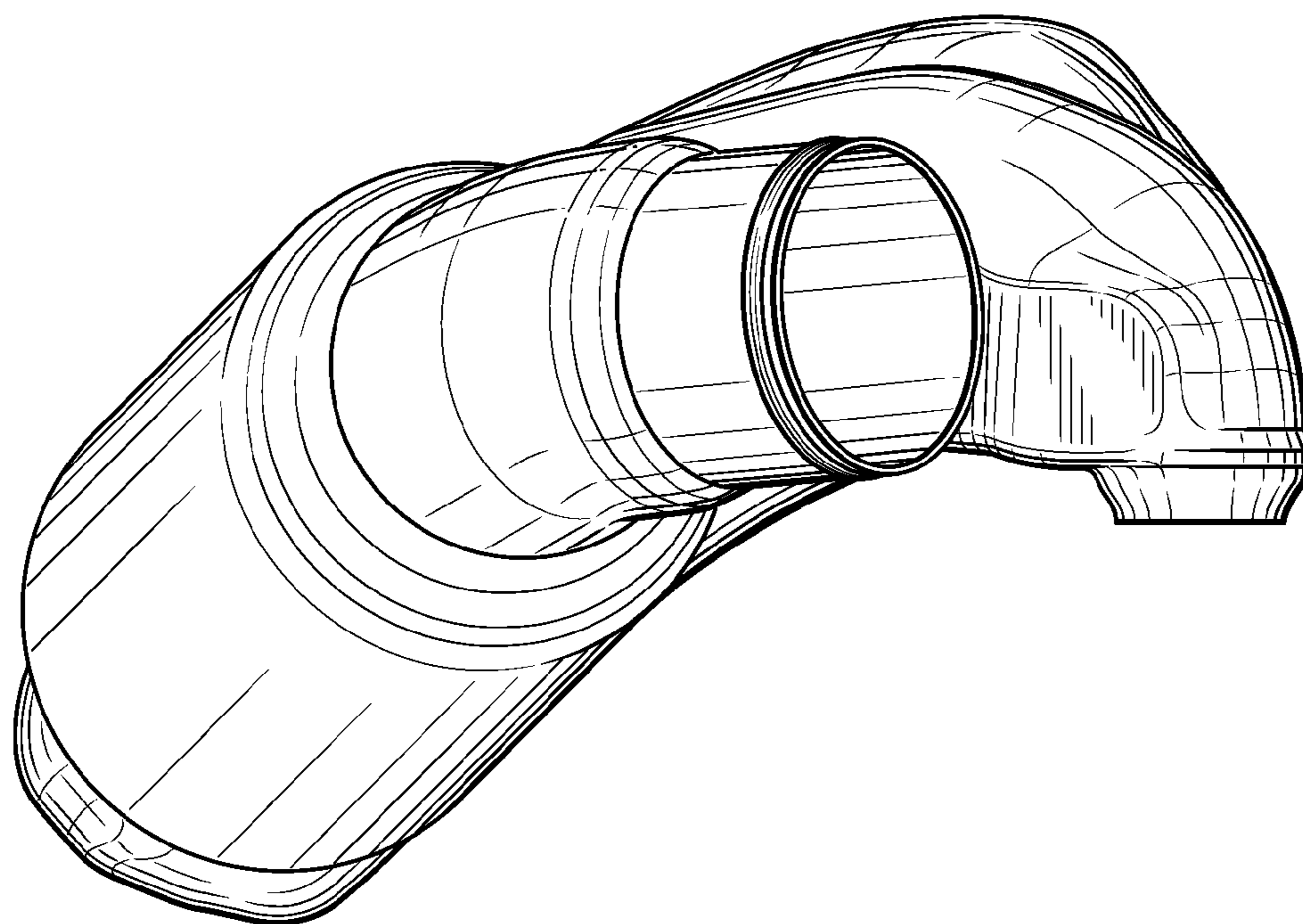


FIG. 3

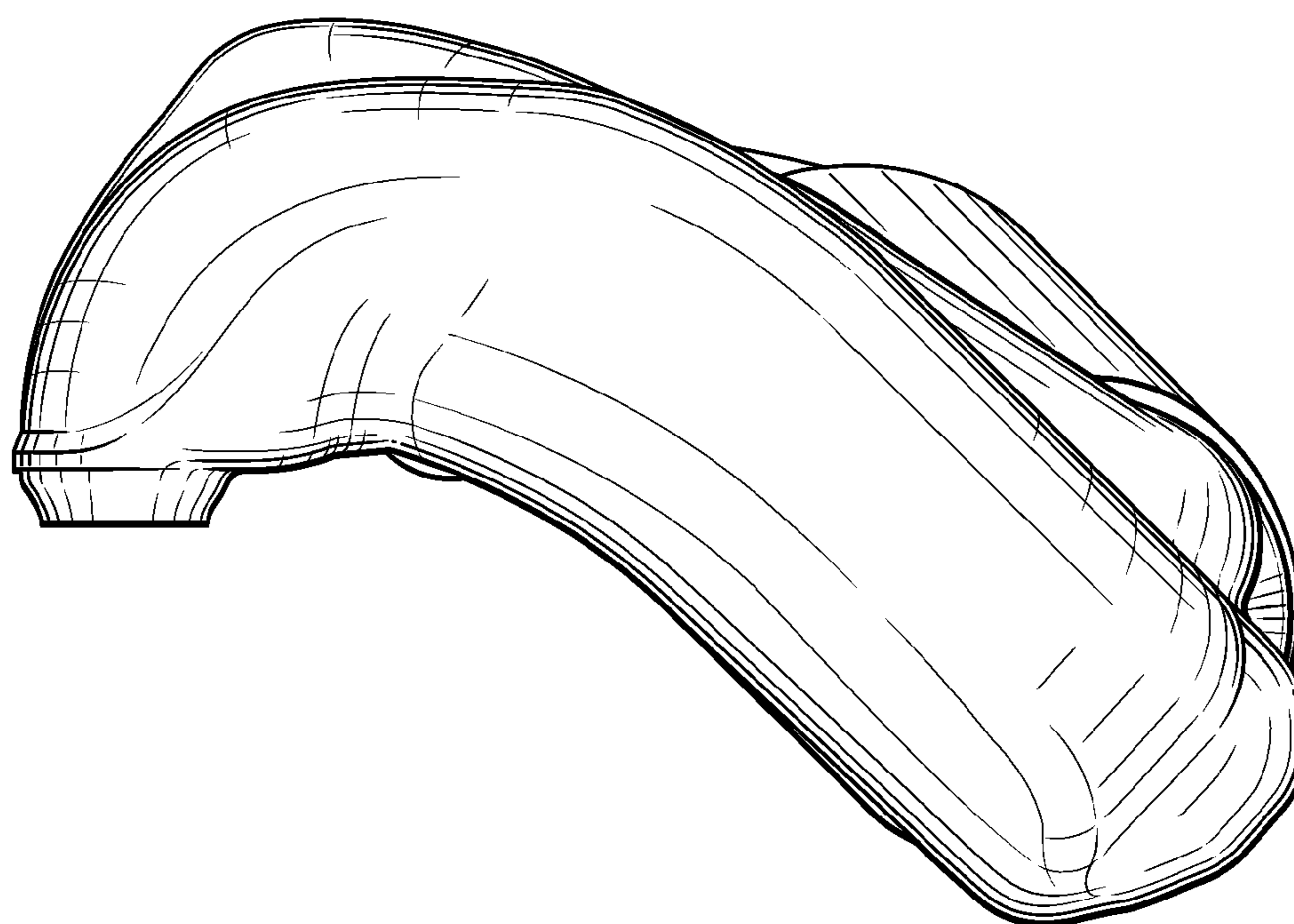


FIG. 4

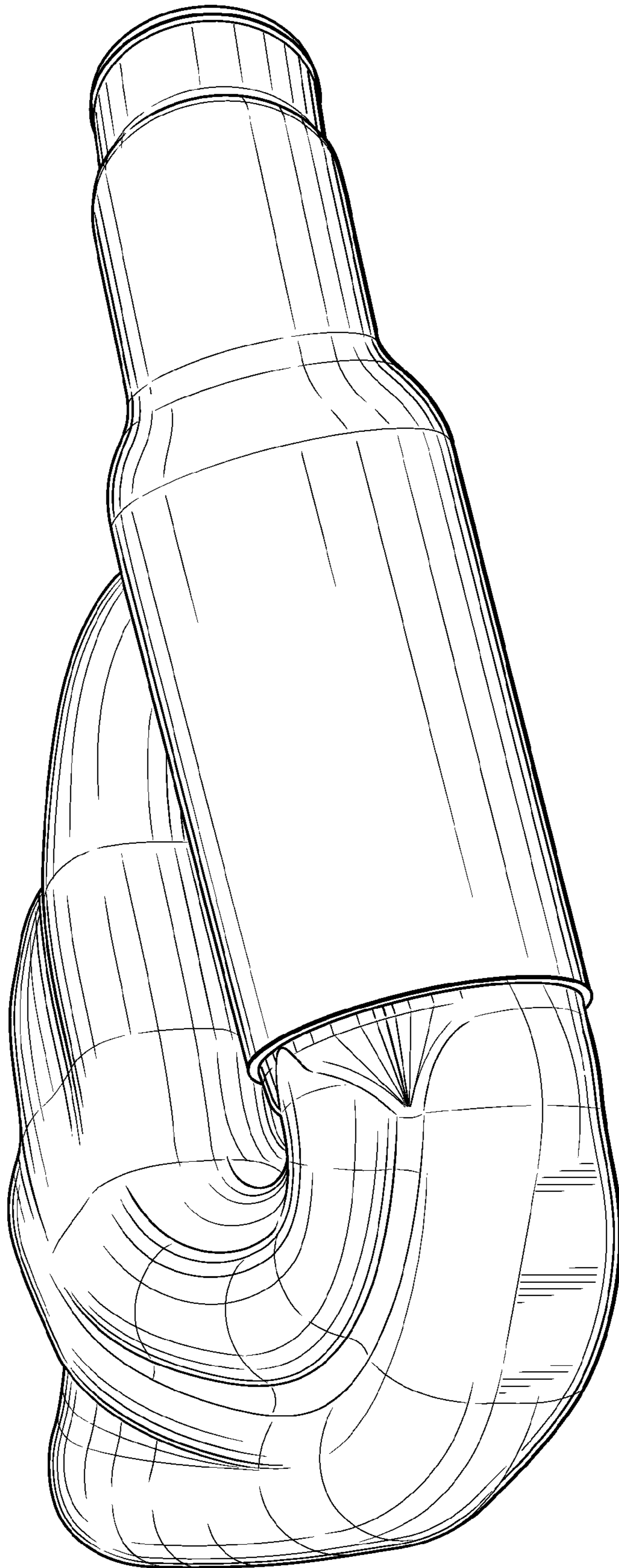


FIG. 5



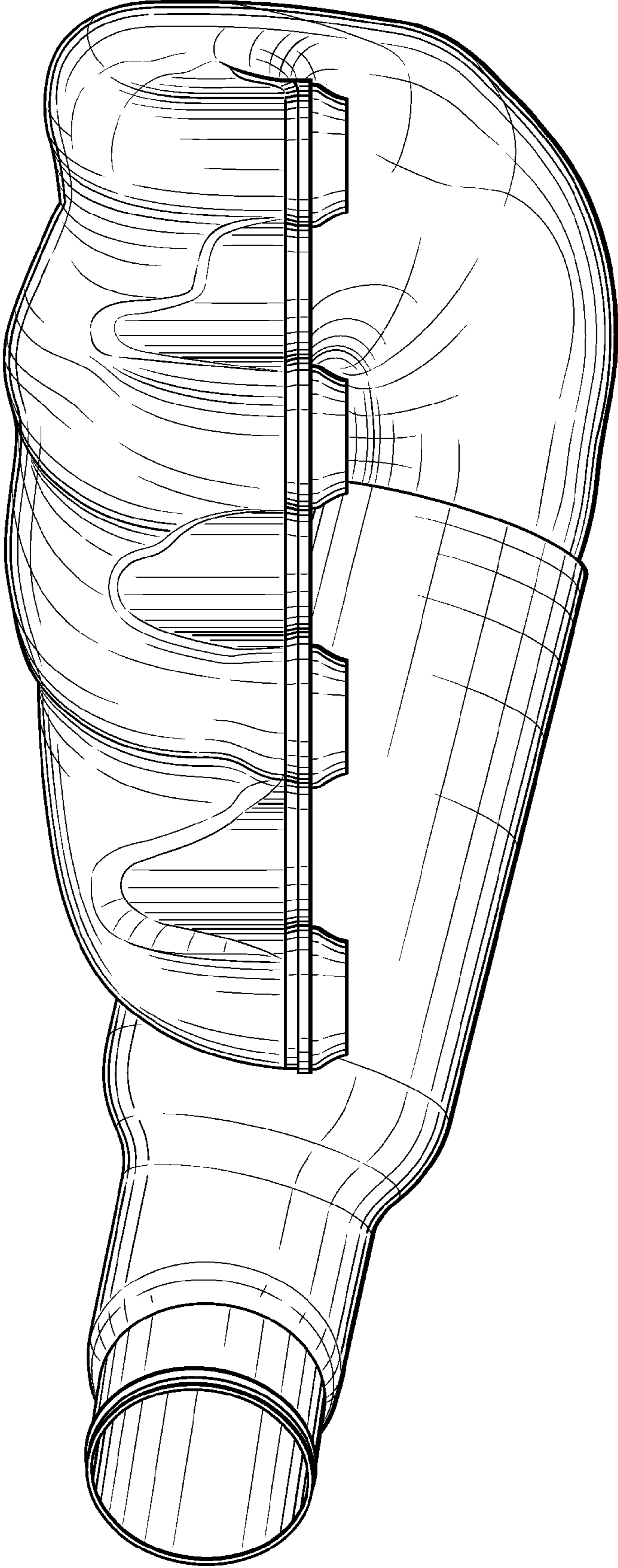


FIG. 6

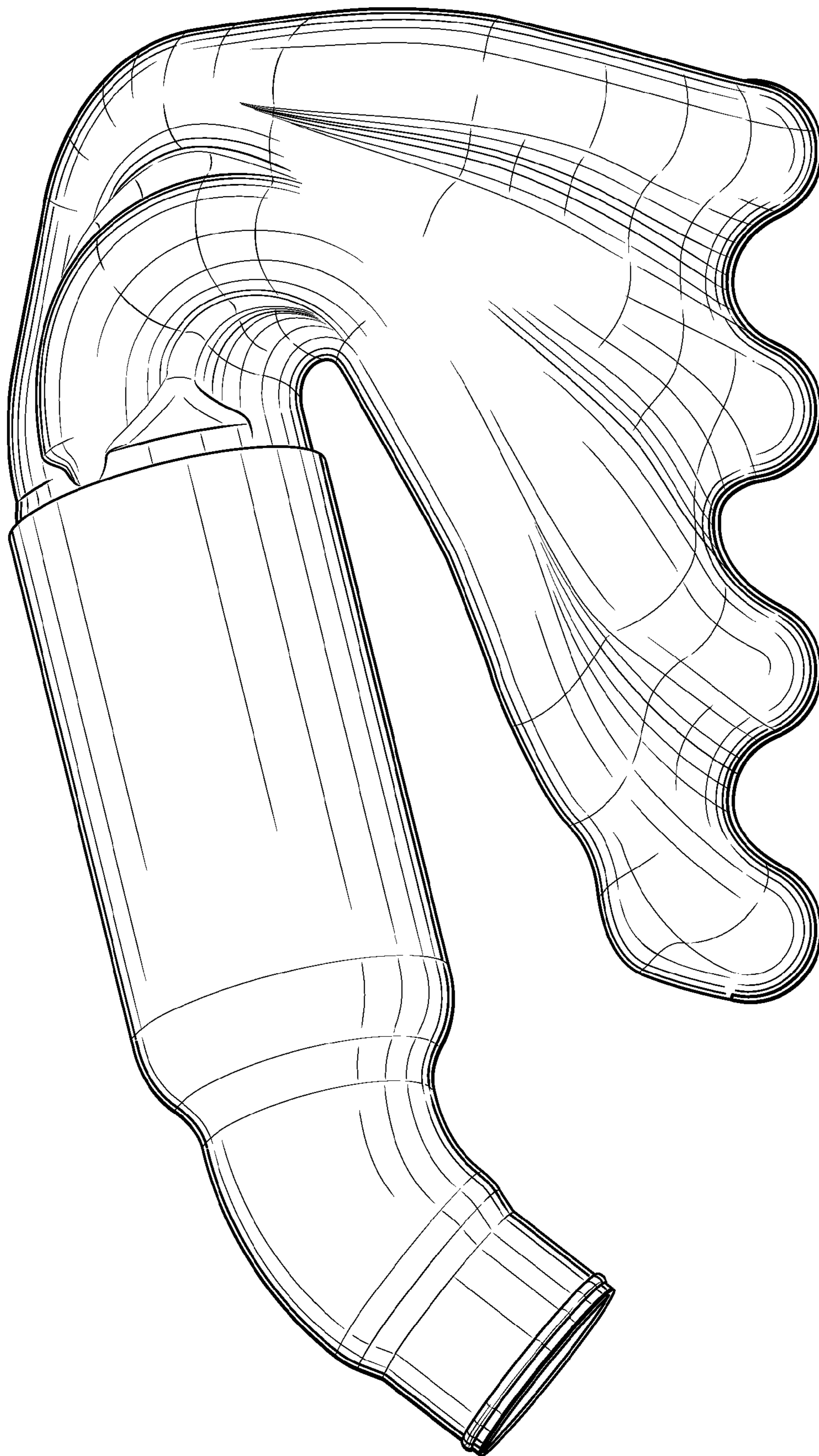


FIG. 7

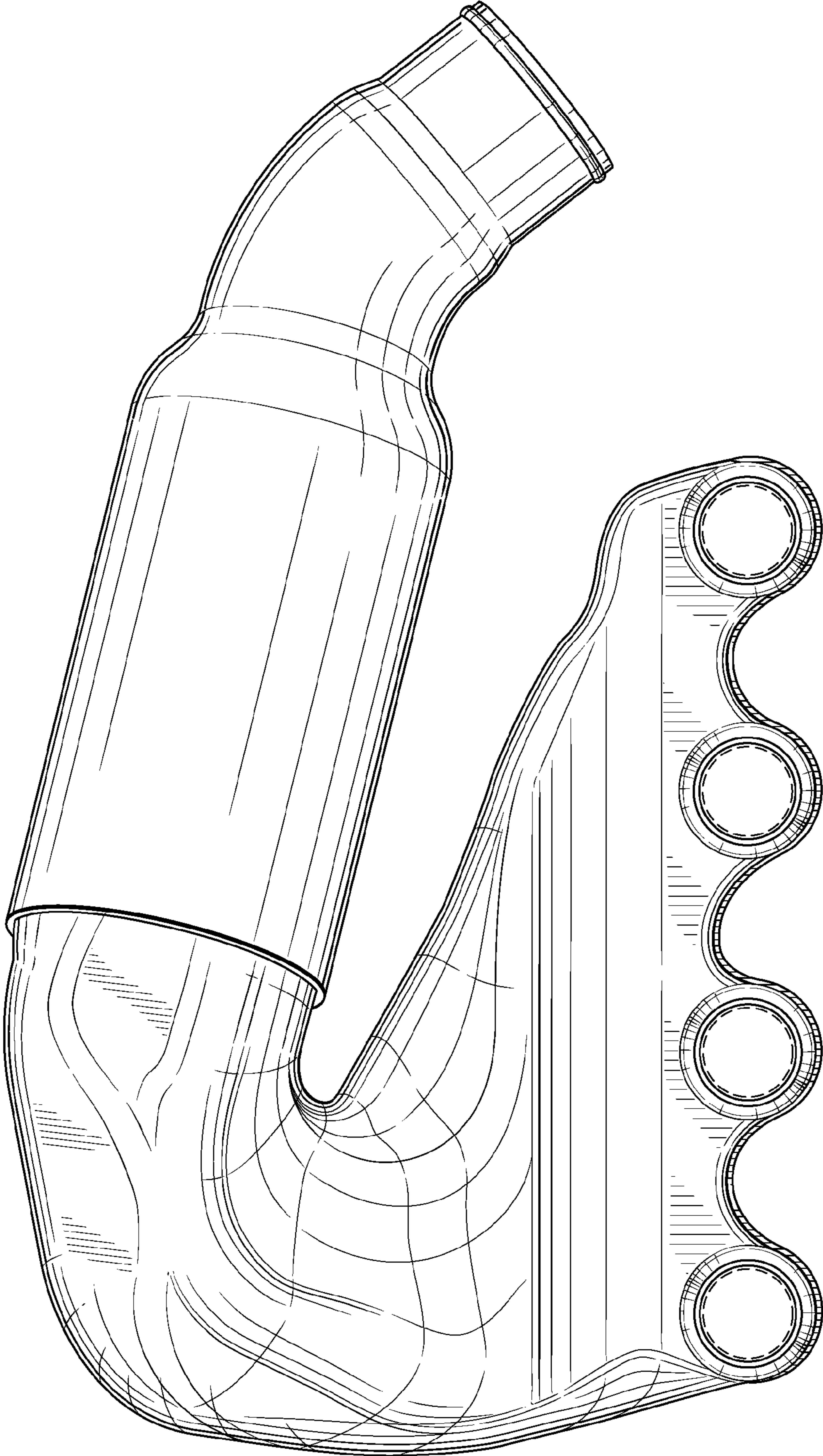


FIG. 8