



US00D896709S

(12) **United States Design Patent** (10) **Patent No.:** **US D896,709 S**
Ewing et al. (45) **Date of Patent:** **** Sep. 22, 2020**

(54) **MODEL VEHICLE SHOCK TOWER**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **TRAXXAS LP**, McKinney, TX (US)
(72) Inventors: **Adam Cole Ewing**, McKinney, TX (US); **Otto Karl Allmendinger**, Rowlett, TX (US); **Kent Poteet**, Lucas, TX (US)

DE 2137757 B2 2/1973
TW D135320 S 6/2010
TW D139245 S 3/2011

(73) Assignee: **TRAXXAS LP**, McKinney, TX (US)

OTHER PUBLICATIONS

Associated Electrics, "Monster GT" model truck; Associated Electrics, Inc., Costa Mesa, California, 1 Photograph.

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

(Continued)

(21) Appl. No.: **29/696,563**

Primary Examiner — Michael A. Pratt

(22) Filed: **Jun. 28, 2019**

(74) Attorney, Agent, or Firm — Daryl R. Wright; Greg Carr

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

(52) **U.S. Cl.**
USPC **D12/159**

(57) **CLAIM**

We claim the ornamental design for a model vehicle shock tower, as shown and described.

(58) **Field of Classification Search**
USPC D12/159
CPC B60G 2204/128; B60G 13/003
See application file for complete search history.

DESCRIPTION

(56) **References Cited**

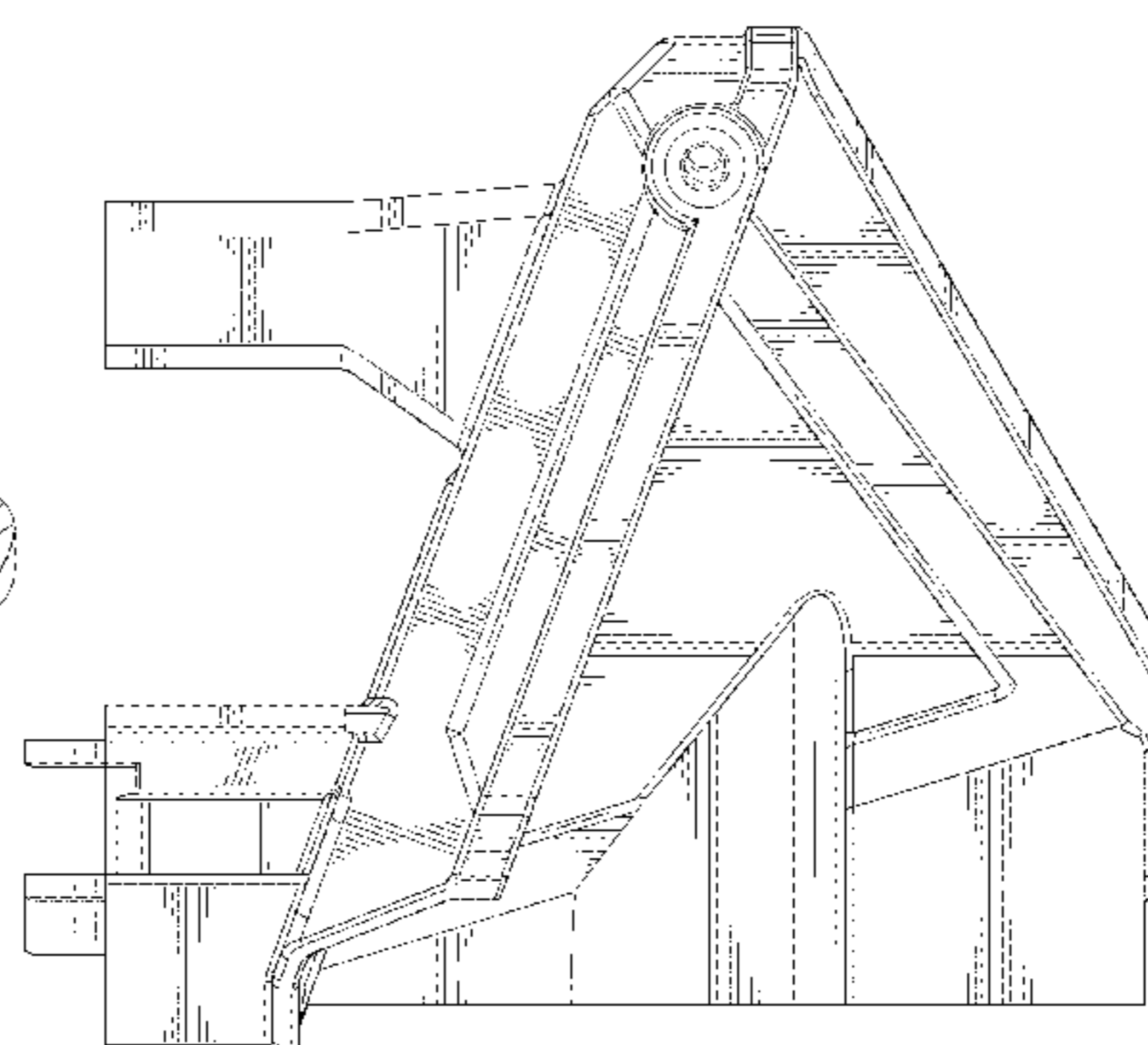
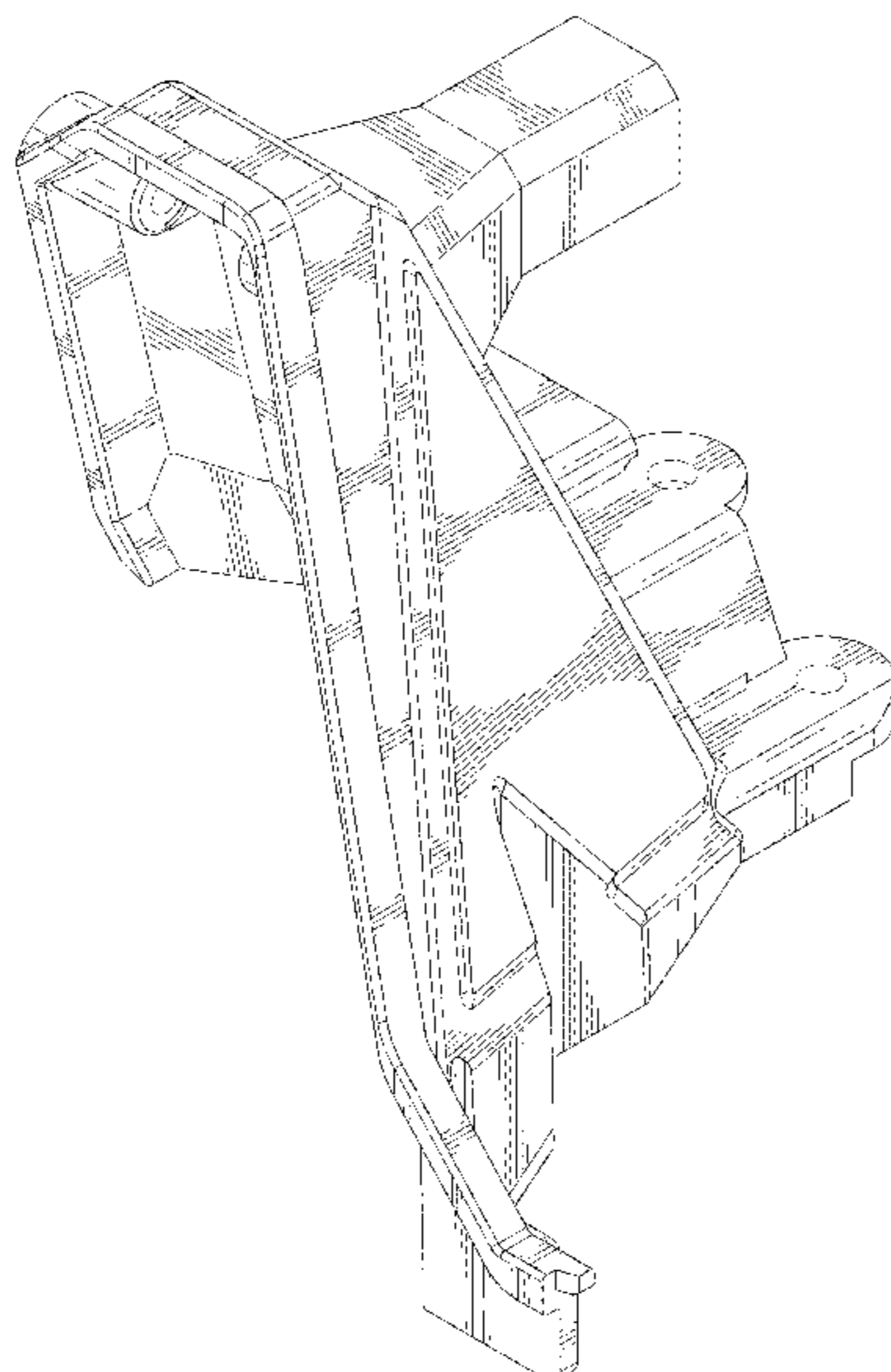
U.S. PATENT DOCUMENTS

1,135,577 A	4/1915	Hague
1,647,438 A	11/1927	De Ram
1,695,379 A	12/1928	Keck
1,998,477 A	4/1935	Wikander
2,123,681 A	7/1938	Willgoos
2,126,085 A	8/1938	Balz
2,131,661 A	9/1938	Heyermans et al.
2,186,065 A	1/1940	Fischer
2,219,361 A	10/1940	Haberstump
2,580,559 A	1/1952	Kolbe
2,643,110 A	6/1953	Gregoire
2,776,147 A	1/1957	Bamford
2,913,253 A	11/1959	Taber
2,931,663 A	4/1960	Ferand
2,992,014 A	7/1961	Muller
3,177,004 A	4/1965	Schmidt

FIG. 1 is an upper, right, front perspective view of a model vehicle shock tower;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a right side elevation view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is an upper, left, front perspective environmental use view of the model vehicle shock tower.
In the drawings, the broken line showing of features of the model vehicle shock tower illustrate portions of the model vehicle shock tower that form no part of the claimed design; whereas, the broken line showing of the environmental use view depicts environmental subject matter and is provided for the purposes of illustrating environmental use structure and context and also forms no part of the claimed design.

(Continued)

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,448,991 A 6/1969 Leggett
 3,545,125 A 12/1970 Okuma
 3,591,198 A 7/1971 Brando
 3,632,127 A 1/1972 Grosseau
 3,671,694 A 6/1972 Masuda
 3,721,455 A 3/1973 Blanton
 3,727,938 A 4/1973 Goodbary et al.
 3,738,631 A 6/1973 Haley
 3,787,073 A 1/1974 Lievore
 D262,959 S 2/1982 Cowan
 4,470,611 A 9/1984 Dunphily et al.
 D277,952 S 3/1985 Nakano et al.
 4,534,575 A 8/1985 Grove et al.
 D281,772 S 12/1985 Heidman et al.
 D295,769 S 5/1988 Olsen
 4,786,075 A 11/1988 Takahashi
 D304,221 S 10/1989 Poulsen
 4,881,752 A 11/1989 Tanaka
 4,955,634 A 9/1990 Smith
 5,071,384 A 12/1991 Poulsen
 5,080,389 A 1/1992 Kawano et al.
 5,108,126 A 4/1992 Banse
 D337,555 S 7/1993 McNab et al.
 D341,170 S 11/1993 Olsen
 5,536,035 A 7/1996 Bautz et al.
 5,682,489 A 10/1997 Harrow et al.
 5,774,984 A 7/1998 Kotani
 5,839,742 A 11/1998 Holt
 5,845,926 A 12/1998 Davis et al.
 D409,681 S 5/1999 Poulsen
 D411,263 S 6/1999 Korsholm
 6,047,988 A 4/2000 Aloe et al.
 6,142,268 A 11/2000 Kuo-An
 D435,236 S 12/2000 Hanlon et al.
 6,170,838 B1 1/2001 Laurent et al.
 D446,263 S 8/2001 Heys
 D468,252 S 1/2003 Morris
 6,550,796 B2 4/2003 Behr
 6,641,457 B1 11/2003 Lai
 6,655,118 B1 12/2003 Thompson et al.
 6,668,779 B2 12/2003 Hendriksma et al.
 6,702,307 B2 3/2004 Becker et al.
 6,719,313 B2 4/2004 Zadok
 6,761,372 B2 7/2004 Bryant
 D493,848 S 8/2004 Dunst
 6,881,122 B2 4/2005 Bloch et al.
 6,945,843 B1 9/2005 Motosko
 7,185,902 B1 3/2007 Lloyd
 D546,751 S 7/2007 Laatz
 D567,886 S 4/2008 Lampert et al.
 7,367,573 B2 5/2008 Kudo et al.
 7,887,074 B2 2/2011 Byers et al.
 D647,826 S 11/2011 Goettker
 9,855,975 B2 1/2018 Amemiya
 D828,460 S * 9/2018 Wood D21/561
 D856,432 S * 8/2019 Ewing D21/495
 2002/0041076 A1 4/2002 Becker et al.
 2002/0077025 A1 6/2002 Wu
 2002/0125676 A1 9/2002 Bryant
 2003/0122336 A1 7/2003 Zadok
 2003/0209217 A1 11/2003 Hendriksma et al.
 2004/0045518 A1 3/2004 Abe
 2004/0261739 A1 12/2004 Shimizuya
 2005/0040619 A1 2/2005 Melcher

2006/0006622 A1 1/2006 Gesmer et al.
 2012/0169023 A1 7/2012 Rawlinson et al.
 2019/0367117 A1* 12/2019 Fischer B60K 11/04

OTHER PUBLICATIONS

Associated Electrics, "RC10GT" model vehicle; Associated Electrics, Inc., Costa Mesa, California, 1 Photograph.
 Bradley, John; "The Racing Motorcycle"; 1996, pp. 246-273, 322-325; Broadland Leisure Publications, England.
 Ellsworth, Tony; "Suspension Design Enhancements—The Ellsworth Dare"; Dreamride Mountain Bike Tours and Film Services, Moab, Utah, 2001.
 Horizon Hobby, "Losi XXX buggy"; Horizon Hobby, Inc., Champaign, Illinois; 1 sketch of suspension geometry.
 HPI Racing, "Savage 21" model truck; Hobby Products International, Foothill Ranch, California; 1 sketch of suspension geometry.
 HyperPRO_USA; "What is Progressive Suspension?" HyperPRO_USA.com.
 Kyosho Inferno MP7.5 model car; Kyosho America, Lake Forest, California; 2 sketches of suspension geometry.
 Milliken, William F. and Milliken, Douglas L.; "Race Car Vehicle Dynamics" 1995, pp. 580-583, 595-597, 628-631; SAE Publications Group, Pennsylvania USA.
 Phillipotts, Peter; "Rising Rate Suspension"; Off Road Design, 2001.
 Race Tech, "Profile—Chalmers Formula SAE Car" Race Tech magazine, Oct./Nov. 2003, p. 74; Racecar Graphic Ltd, London, England.
 Racecar Engineering, Jun. 2003—vol. 13 No. 06, pp. 15, 106; Country & Leisure Media Ltd./IPC Media Ltd., Croydon, England.
 Salven, Michael; "Progressive Suspension" Nov. 10, 2000; myTSN—Publication, Netherlands.
 Serpent, Veteq; Serpent Model Racing Cars, Noord-Holland, Netherlands; 3 pictures.
 Serpent, Veteq; Serpent Model Racing Cars, Noord-Holland, Netherlands; 1 sketch of suspension geometry.
 Staniforth, Allan; "Competition Car Suspension" 1988, pp. 76-81, 84-85; Haynes Publications, Newbury Park, California.
 Tamiya, "Terra Crusher" model truck; Tamiya America, Inc., Aliso Viejo, California; 1 sketch of suspension geometry.
 Traxxas, "Nitro Rustler" model vehicle; Traxxas LP, Plano, Texas; 1 photograph.
 Traxxas; "T-Maxx Assemblies, Front Assembly" exploded view; Traxxas LP, Plano, Texas.
 Traxxas, "T-Maxx" model vehicle; Traxxas LP, Plano, Texas; 1 photograph.
 Full size vehicle with suspension linkage #1.
 Full size vehicle with suspension linkage #2.
 Axial SCX10 II Shock Hoops AX131380; <http://www.axialracing.com/products/ax31380>; Aug. 2016.
 HPI Venture FJ Cruiser; <http://www.hpiracing.com/en/article/view/2016012702>; Jan. 27, 2016.
 Taiwan IPO Search Report, Taiwan Design App No. 105301437; dated Aug. 4, 2016.
 Taiwan IPO Search Report, Taiwan Design App No. 106300762; dated May 16, 2017.
 L. Granieri; U.S. Pat. No. 903,080; Road Vehicle Wheel Axle; Nov. 3, 1908.
 H. Ewing; U.S. Pat. No. 951,000; Spring Controlled Vehicle Wheel Link; Mar. 1, 1910.
 Hobby Town; Front_Rear_Shock_Tower_set [online] found on Mar. 5, 2018 from URL <https://www.hobbytown.com/trx-front-rear-shock-tower-set-by-traxxas-tra8216/p668322>.

* cited by examiner

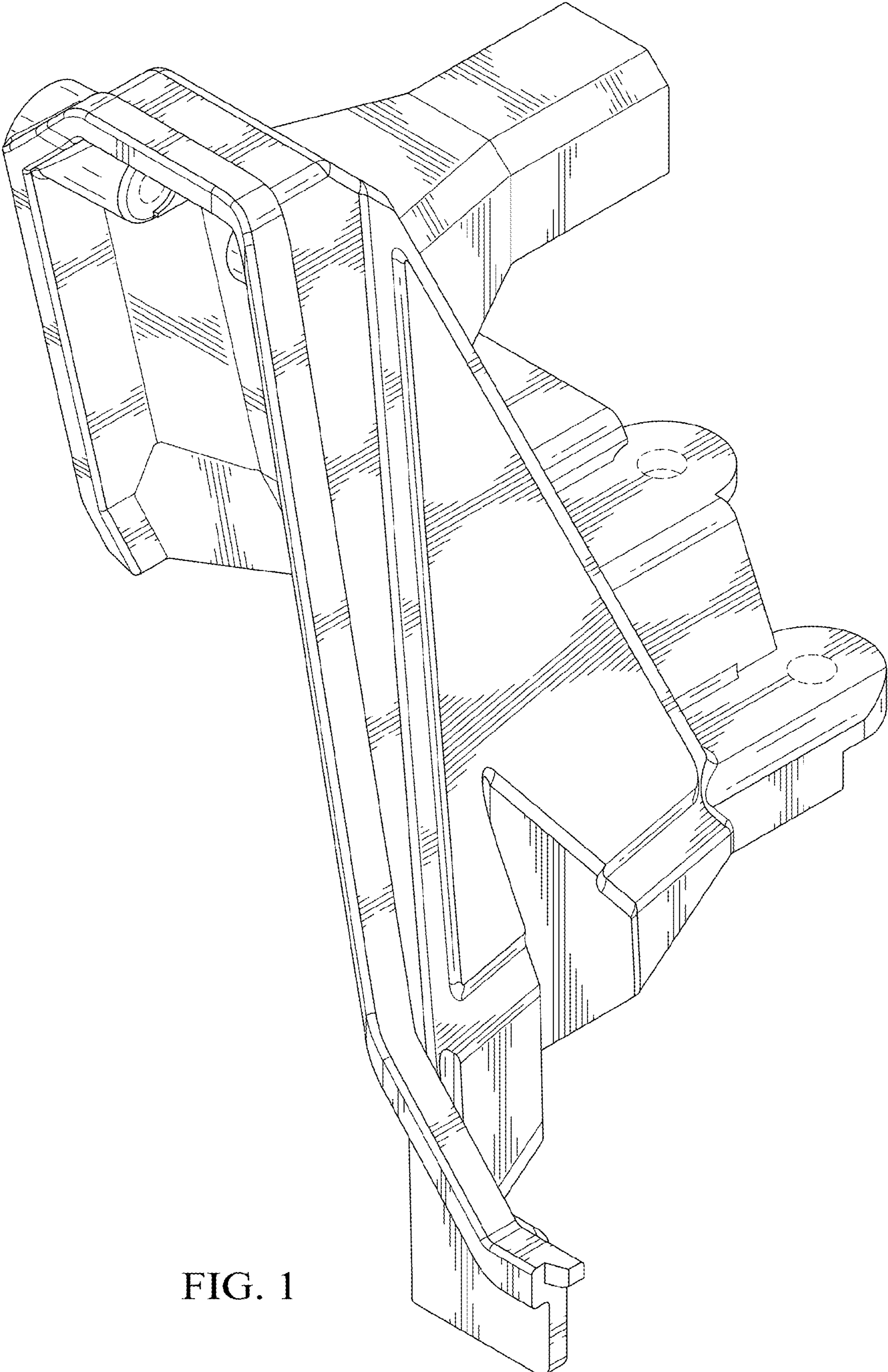


FIG. 1

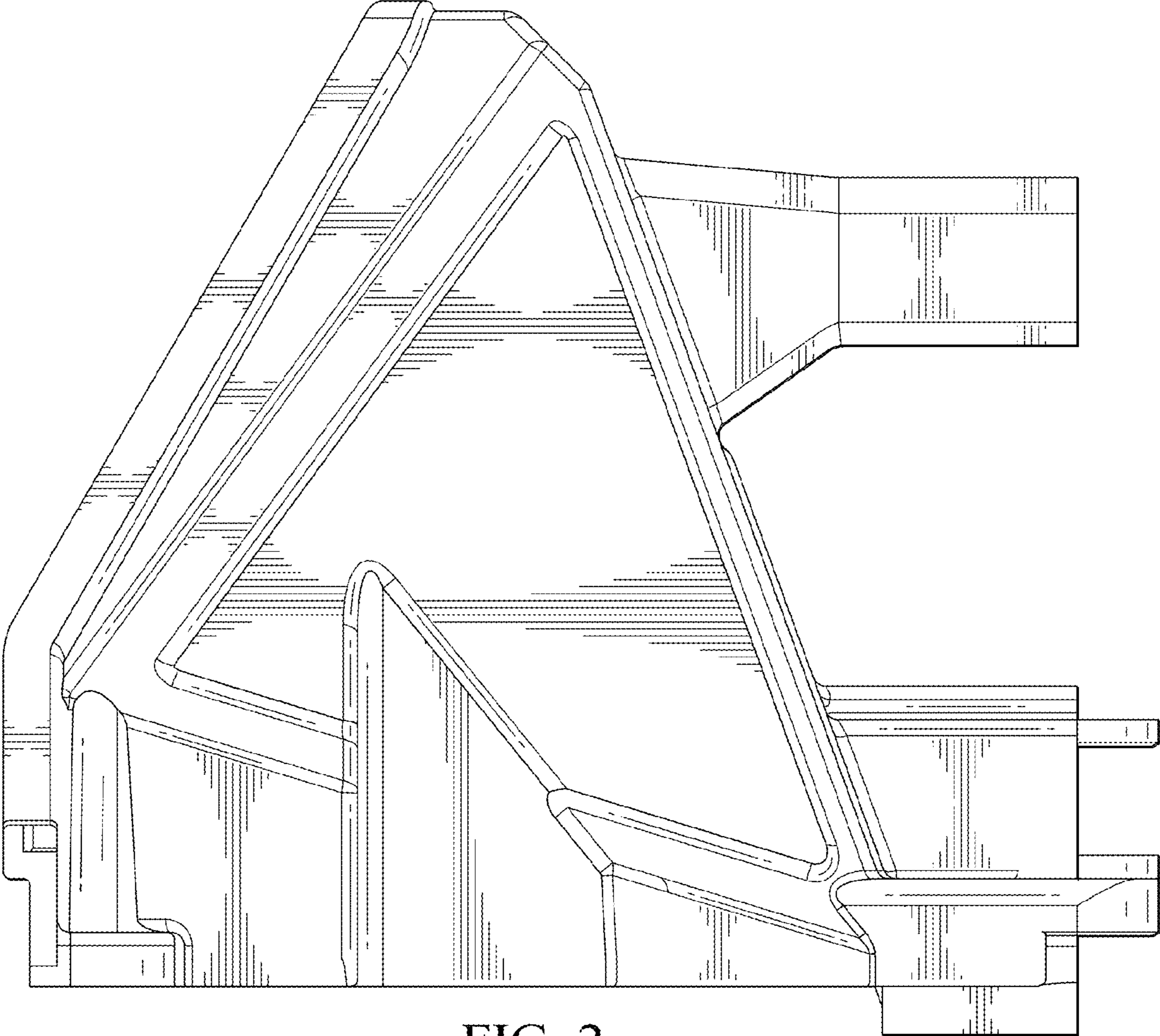


FIG. 2

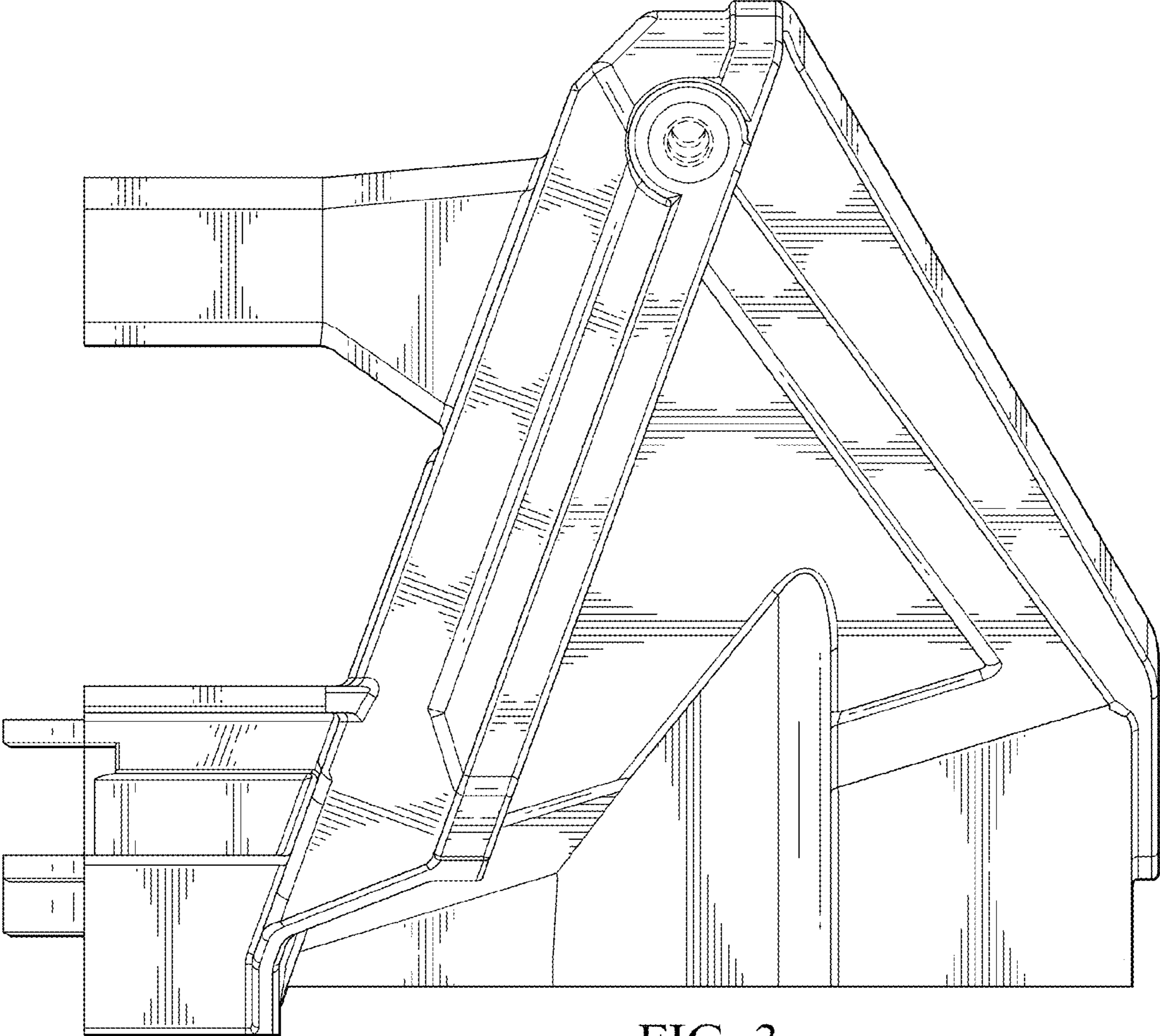


FIG. 3

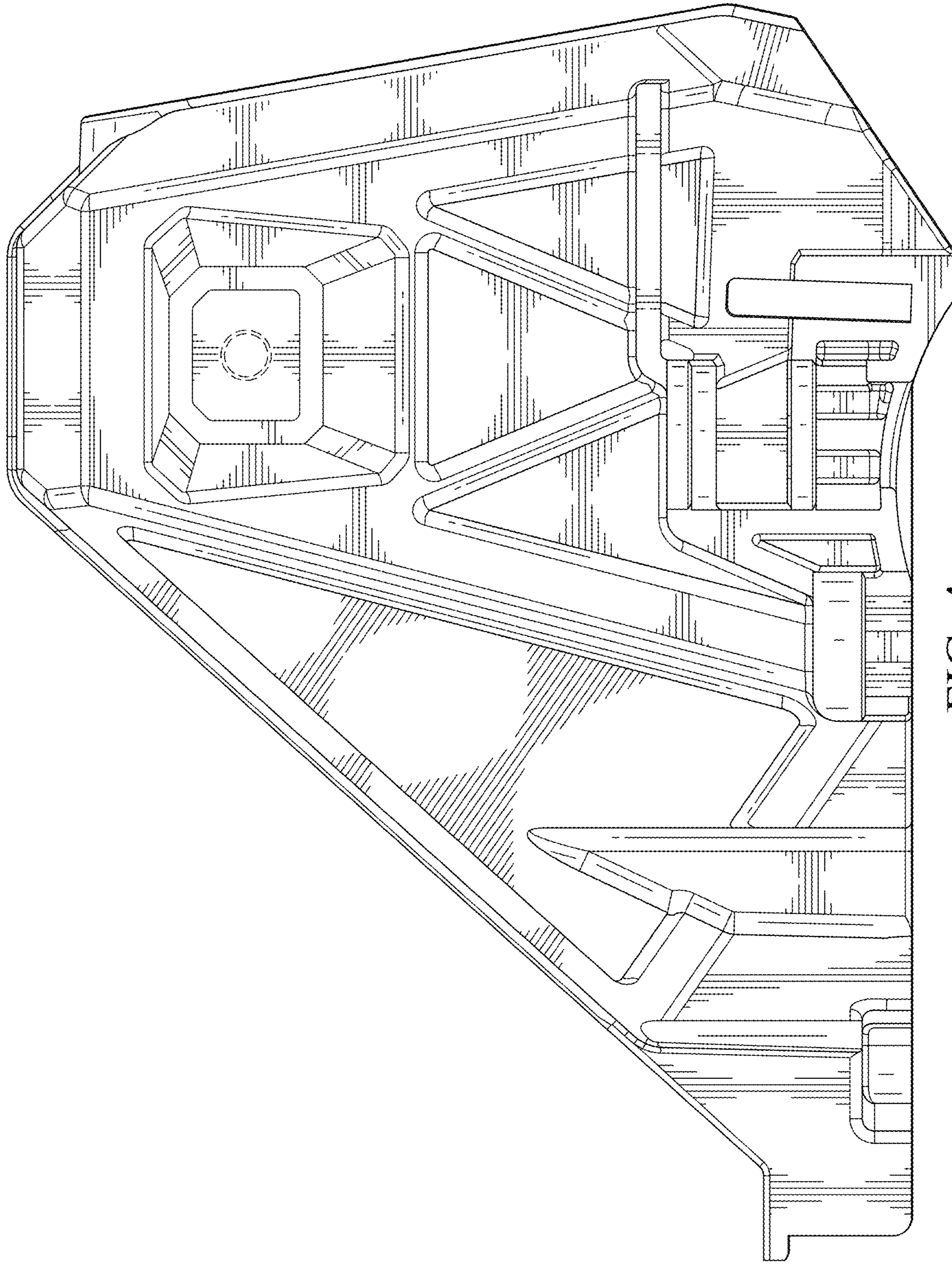


FIG. 4

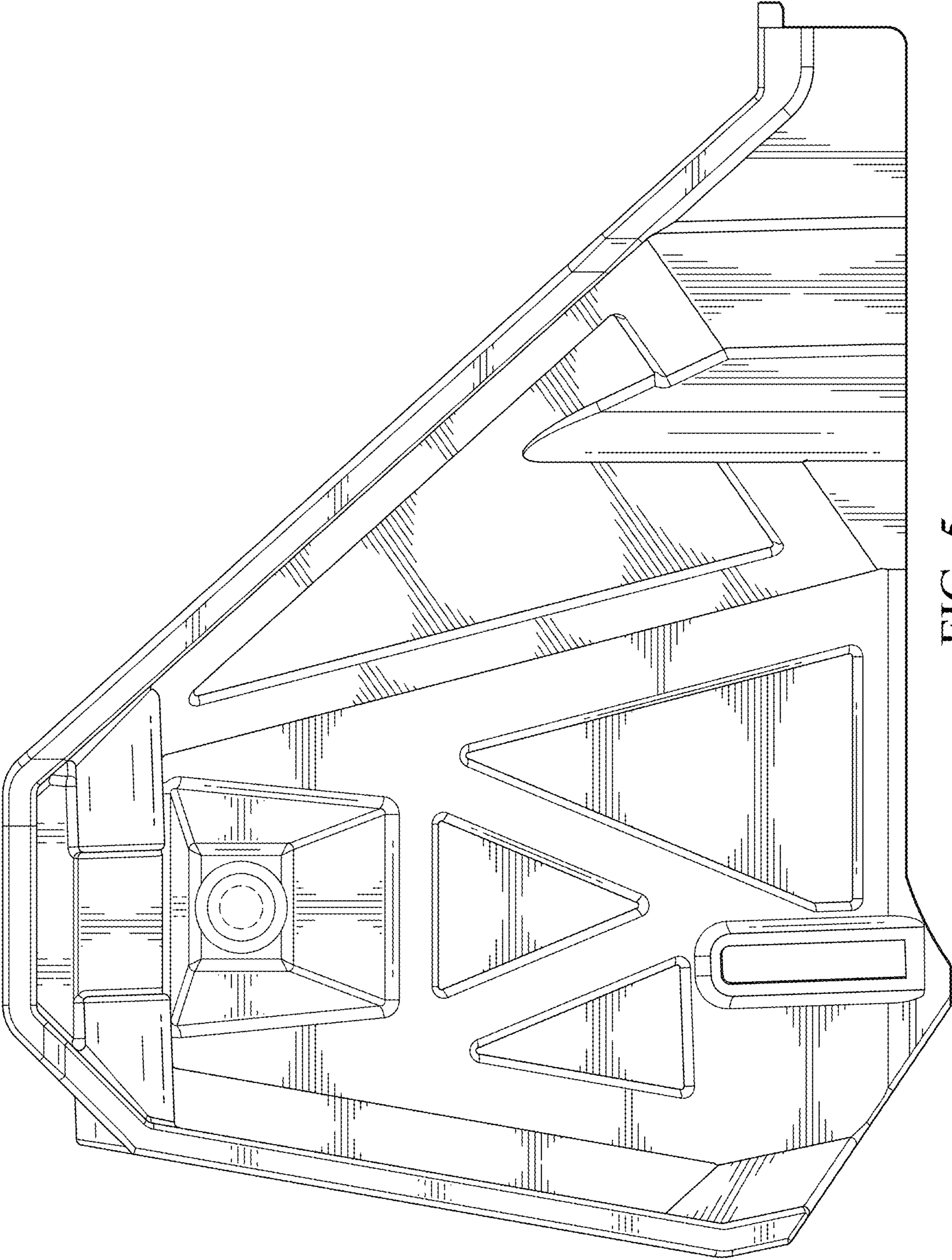


FIG. 5

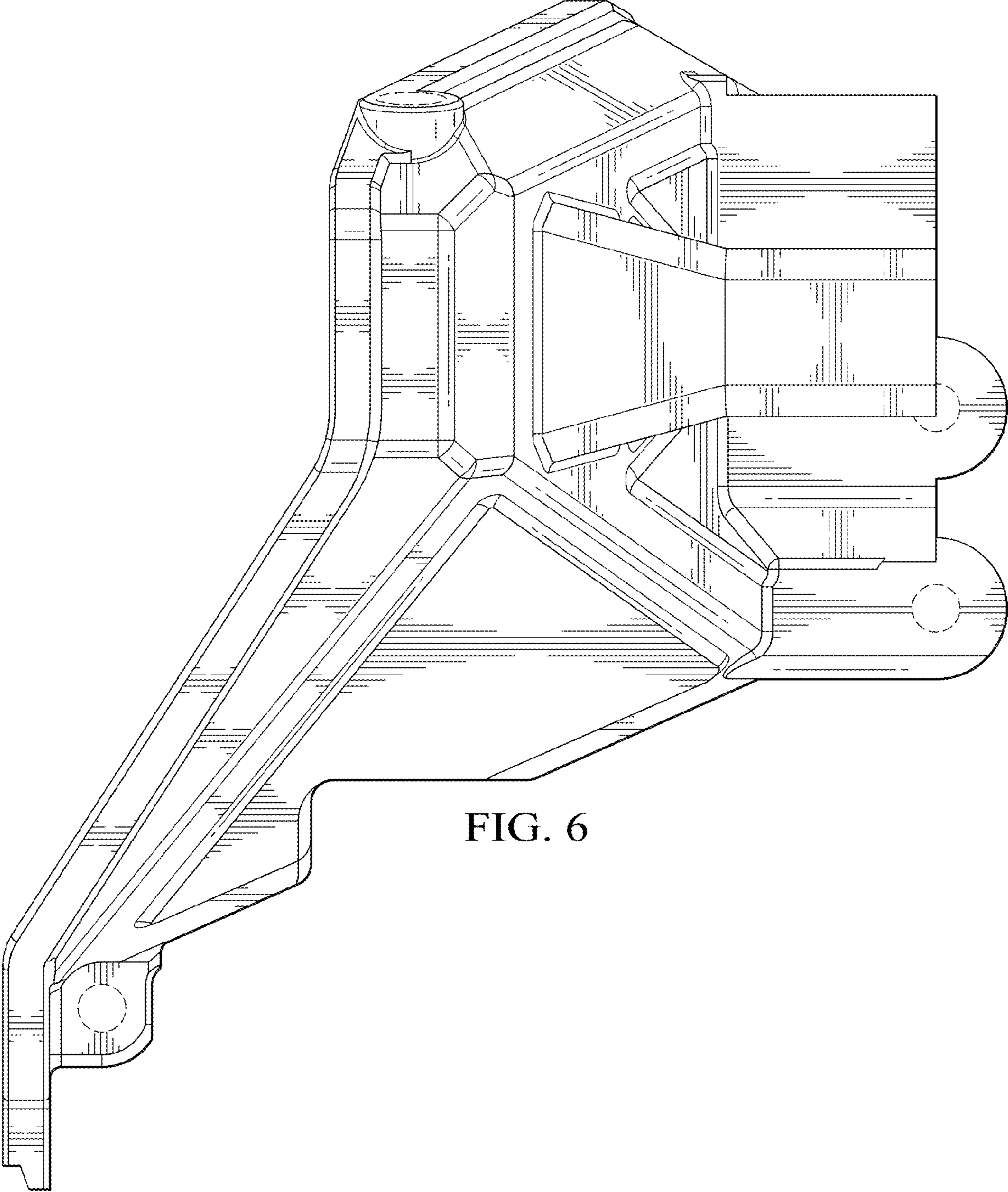


FIG. 6

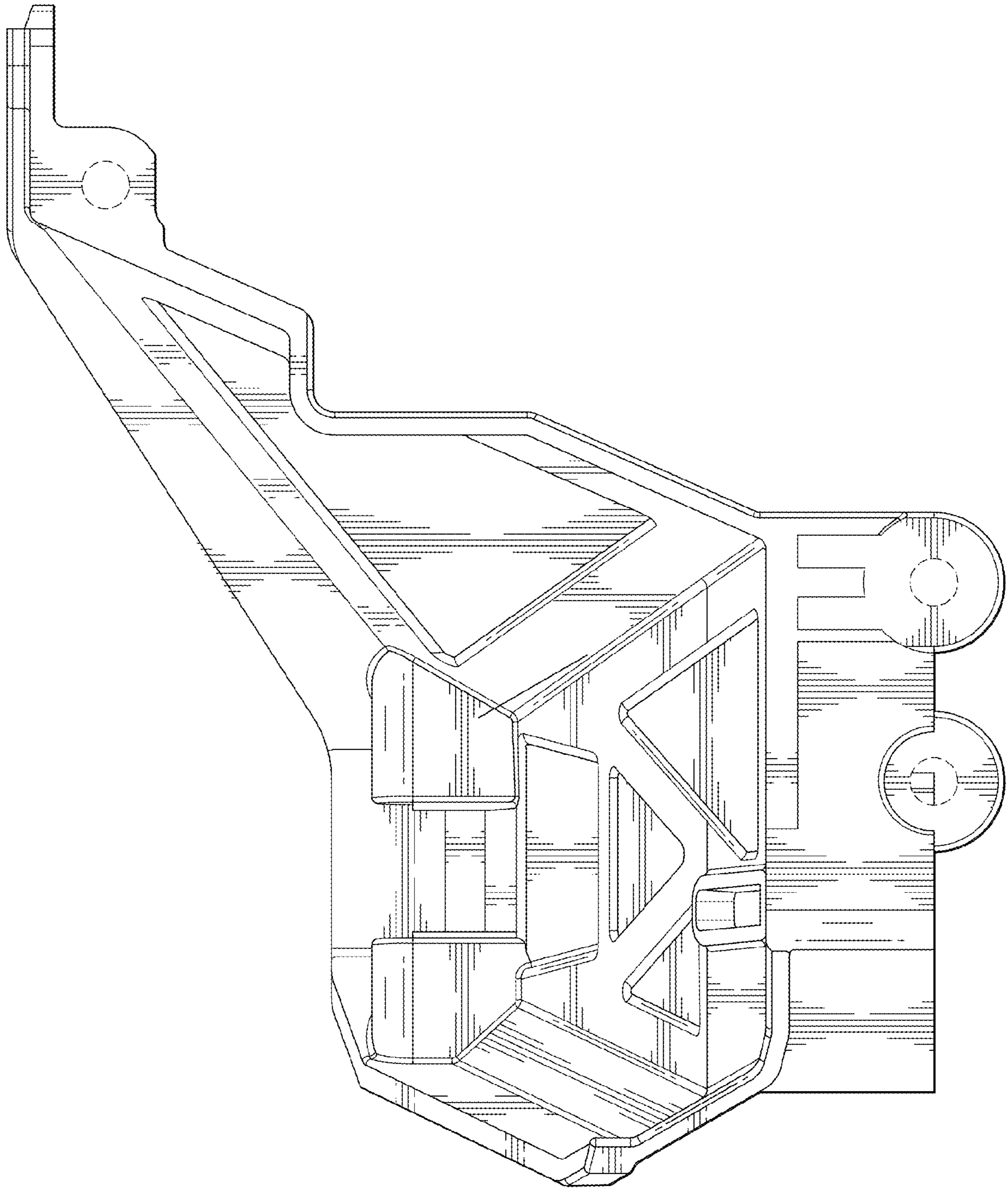


FIG. 7

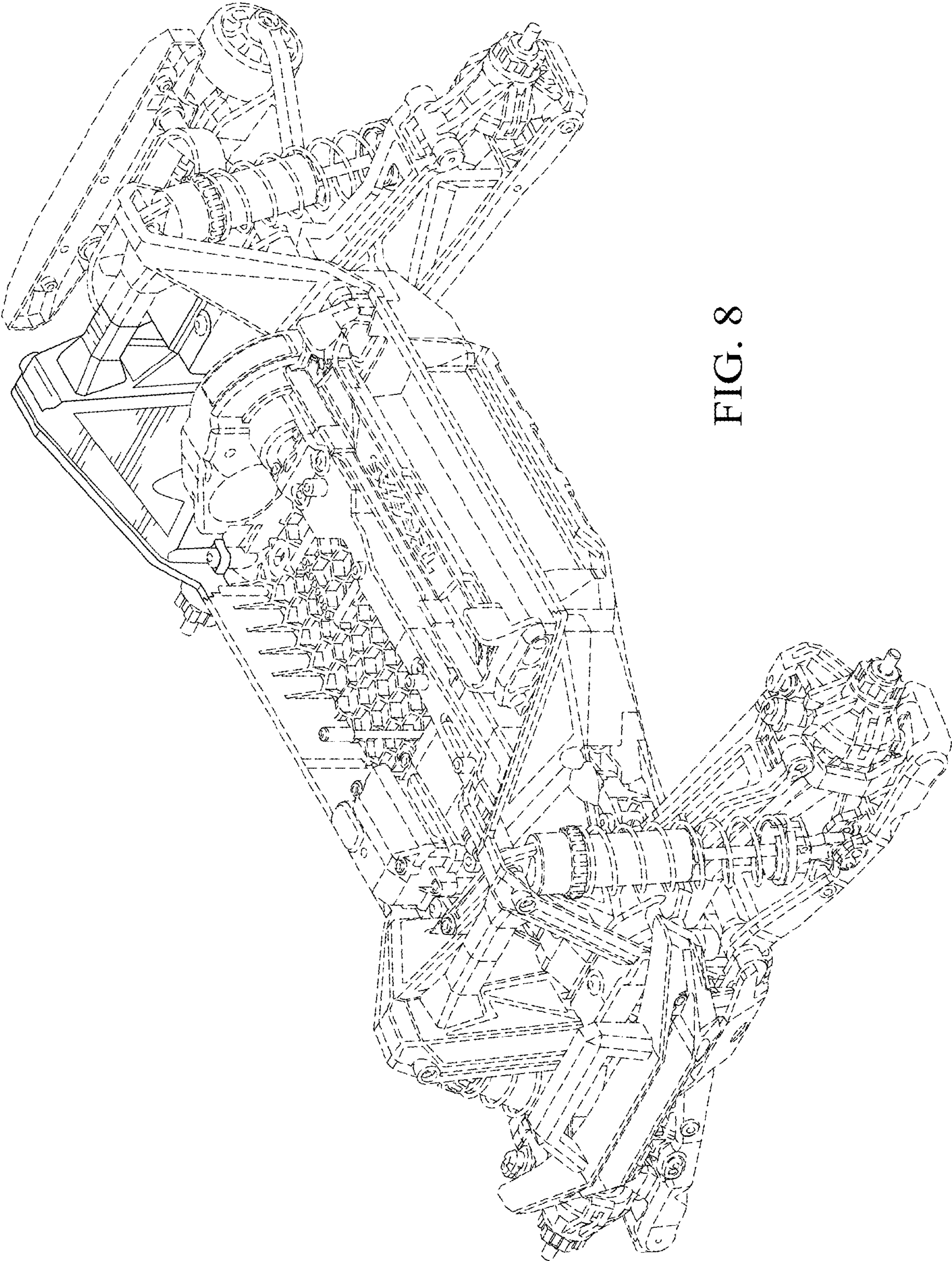


FIG. 8