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(12) **United States Design Patent** (10) **Patent No.:** **US D970,805 S**  
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(54) **COMPONENT FOR A VAPORIZER CARTRIDGE**

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

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CPC ..... A24F 1/30; A24F 1/02; A24F 1/00; A24F 47/008; A24F 47/002  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

595,070 A † 12/1897 Oldenbusch ..... B65D 43/168  
220/829  
D143,295 S † 12/1945 Fisher ..... D27/159  
2,897,958 A † 8/1959 Tarleton ..... A24F 15/12  
229/128  
2,956,569 A † 10/1960 Adams ..... A24F 13/02  
131/229  
3,723,048 A † 3/1973 Russell ..... F23Q 2/06  
431/151  
3,918,451 A † 11/1975 Steil ..... A61M 15/004  
128/203.21

(Continued)

OTHER PUBLICATIONS

Modello iWand, httqfLily.LyagL.IDA2,lt.:22,,ajar.c.Z.21, 2aLf25.:Q., published Dec. 28, 2012, (4 pages).†

(Continued)

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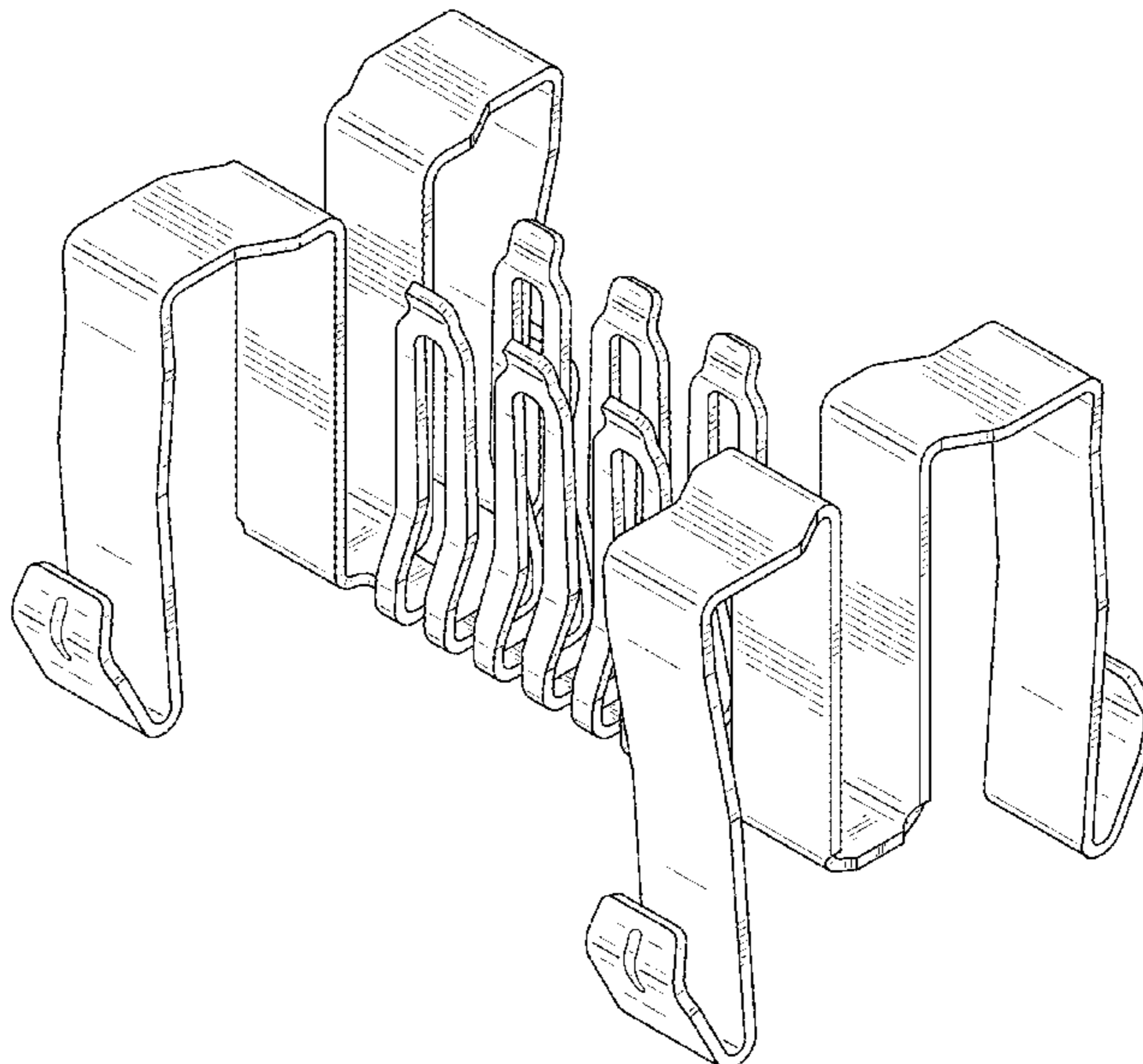
(57) **CLAIM**

The ornamental design for a component for a vaporizer cartridge, as shown and described.

**DESCRIPTION**

FIG. 1 is a top, front, and right side perspective view of a component for a vaporizer cartridge of our design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a top view thereof; and,  
FIG. 7 is a bottom view thereof.

**1 Claim, 7 Drawing Sheets**



(56)

## References Cited

## U.S. PATENT DOCUMENTS

|           |      |         |               |       |                            |           |      |         |               |       |                            |
|-----------|------|---------|---------------|-------|----------------------------|-----------|------|---------|---------------|-------|----------------------------|
| D260,690  | S †  | 9/1981  | Stutzer       | ..... | D27/154                    | D631,055  | S †  | 1/2011  | Gilbert       | ..... | D14/242                    |
| D267,590  | S †  | 1/1983  | Varma         | ..... | D27/161                    | D631,458  | S †  | 1/2011  | Liao          | ..... | D14/138 G                  |
| D271,255  | S †  | 11/1983 | Rousseau      | ..... | D3/207                     | D634,735  | S †  | 3/2011  | Maier         | ..... | D14/218                    |
| D280,494  | S †  | 9/1985  | Abel          | ..... | D13/168                    | D639,303  | S †  | 6/2011  | Ni            | ..... | D14/480.7                  |
| D299,066  | S †  | 12/1988 | Newell        | ..... | D24/110                    | D639,782  | S †  | 6/2011  | Kim           | ..... | D14/218                    |
| 4,811,731 | A †  | 3/1989  | Newell        | ..... | A61M 15/0045<br>128/203.15 | D641,718  | S †  | 7/2011  | Sakai         | ..... | D13/168                    |
| D310,349  | S †  | 9/1990  | Rowen         | ..... | D13/168                    | D643,658  | S *  | 8/2011  | Vining        | ..... | D6/552                     |
| D336,346  | S †  | 6/1993  | Miller        | ..... | D25/126                    | D645,817  | S †  | 9/2011  | Sasada        | ..... | D13/108                    |
| H1271     | H †  | 1/1994  | Shouse        | ..... | 131/86                     | D647,101  | S †  | 10/2011 | Huang         | ..... | D14/480.7                  |
| 5,479,948 | A †  | 1/1996  | Counts        | ..... | A24F 40/46<br>131/194      | D654,160  | S †  | 2/2012  | Yomtov        | ..... | D23/360                    |
| D379,810  | S †  | 6/1997  | Giordano, Jr. | ..... | D14/248                    | D656,496  | S †  | 3/2012  | Andre         | ..... | D14/496                    |
| 5,746,587 | A †  | 5/1998  | Racine        | ..... | A24F 15/18<br>206/87       | D664,636  | S †  | 7/2012  | Robinson      | ..... | D23/360                    |
| D397,504  | S †  | 8/1998  | Zelenik       | ..... | D27/187                    | D669,530  | S †  | 10/2012 | Hung          | ..... | D19/166                    |
| D405,007  | S †  | 2/1999  | Naas, Sr.     | ..... | D9/414                     | D670,659  | S †  | 11/2012 | Ishikawa      | ..... | D13/168                    |
| D422,884  | S †  | 4/2000  | Lafond        | ..... | D8/354                     | D675,777  | S †  | 2/2013  | Wu            | ..... | D27/101                    |
| D450,313  | S †  | 11/2001 | Koinuma       | ..... | D14/218                    | D676,741  | S †  | 2/2013  | van Landsveld | ..... | D9/423                     |
| D450,662  | S †  | 11/2001 | Kwok          | ..... | D13/168                    | 8,371,709 | B2 † | 2/2013  | Cheng         | ..... | B60N 3/14<br>362/183       |
| D472,090  | S *  | 3/2003  | Wing          | ..... | D6/552                     | D681,445  | S †  | 5/2013  | van Landsveld | ..... | D9/423                     |
| D478,569  | S †  | 8/2003  | Hussaini      | ..... | D14/218                    | D682,841  | S †  | 5/2013  | Suetake       | ..... | D14/480.1                  |
| D478,897  | S †  | 8/2003  | Tsuge         | ..... | D14/218                    | D686,987  | S †  | 7/2013  | Vanstone      | ..... | D13/108                    |
| 6,743,030 | B2 † | 6/2004  | Lin           | ..... | H01R 13/4534<br>439/131    | D687,042  | S †  | 7/2013  | Yoneta        | ..... | D14/480.5                  |
| D500,301  | S †  | 12/2004 | Deguchi       | ..... | D14/480.4                  | D688,415  | S †  | 8/2013  | Kim           | ..... | D27/101                    |
| D500,302  | S †  | 12/2004 | Deguchi       | ..... | D14/480.4                  | 8,522,776 | B2 † | 9/2013  | Wright        | ..... | A61M 15/0026<br>128/203.15 |
| D505,922  | S †  | 6/2005  | Mayo          | ..... | D13/168                    | D703,679  | S †  | 4/2014  | Chen          | ..... | D14/480.1                  |
| D506,447  | S †  | 6/2005  | Mayo          | ..... | D13/168                    | D703,680  | S †  | 4/2014  | Lin           | ..... | D14/480.1                  |
| D506,731  | S †  | 6/2005  | Mayo          | ..... | D13/168                    | 8,695,794 | B2 † | 4/2014  | Scatterday    | ..... | A24F 15/01<br>206/242      |
| D507,244  | S †  | 7/2005  | Mayo          | ..... | D13/168                    | 8,707,965 | B2 † | 4/2014  | Newton        | ..... | A24F 40/44<br>131/194      |
| D514,741  | S †  | 2/2006  | Cohen Harel   | ..... | D27/157                    | D704,629  | S †  | 5/2014  | Liu           | ..... | D27/194                    |
| 7,000,775 | B2 † | 2/2006  | Gelardi       | ..... | B65D 15/08<br>206/485      | D707,688  | S †  | 6/2014  | Wu            | ..... | D14/480.1                  |
| D523,171  | S †  | 6/2006  | Mitten        | ..... | D27/189                    | D708,727  | S †  | 7/2014  | Postma        | ..... | D23/360                    |
| D525,948  | S †  | 8/2006  | Blair         | ..... | D13/168                    | D711,389  | S †  | 8/2014  | Sun           | ..... | D14/480.5                  |
| D528,992  | S †  | 9/2006  | Hobart        | ..... | D13/168                    | D711,891  | S †  | 8/2014  | Emami         | ..... | D14/480.5                  |
| D529,044  | S †  | 9/2006  | Andre         | ..... | D14/203.3                  | 8,794,231 | B2 † | 8/2014  | Thorens       | ..... | A61M 15/06<br>219/535      |
| D530,340  | S †  | 10/2006 | Andre         | ..... | D14/203.3                  | D718,492  | S †  | 11/2014 | Albanese      | ..... | D27/101                    |
| D531,190  | S †  | 10/2006 | Lee           | ..... | D14/203.3                  | D718,723  | S †  | 12/2014 | Clymer        | ..... | D13/168                    |
| D532,927  | S †  | 11/2006 | Sann          | ..... | D27/101                    | D718,933  | S †  | 12/2014 | Brown, Jr.    | ..... | D3/904                     |
| D534,921  | S †  | 1/2007  | Andre         | ..... | D14/203.3                  | D719,375  | S *  | 12/2014 | Cox           | ..... | D6/552                     |
| D535,261  | S †  | 1/2007  | Daniels       | ..... | D13/168                    | D721,202  | S †  | 1/2015  | Liu           | ..... | D27/101                    |
| D535,308  | S †  | 1/2007  | Andre         | ..... | D14/203.3                  | 8,955,522 | B1 † | 2/2015  | Bowen         | ..... | A24F 40/42<br>131/273      |
| D539,813  | S †  | 4/2007  | Chen          | ..... | D14/203.3                  | D723,735  | S †  | 3/2015  | Liu           | ..... | D27/189                    |
| D540,749  | S †  | 4/2007  | Kaule         | ..... | D13/168                    | D723,736  | S †  | 3/2015  | Liu           | ..... | D27/189                    |
| 7,214,075 | B2 † | 5/2007  | He            | ..... | H01R 13/5213<br>439/271    | D723,737  | S †  | 3/2015  | Liu           | ..... | D27/189                    |
| D545,303  | S †  | 6/2007  | Chang         | ..... | D14/218                    | D724,037  | S †  | 3/2015  | Yoshioka      | ..... | D13/168                    |
| D545,490  | S †  | 6/2007  | Tai           | ..... | D27/135                    | D724,782  | S †  | 3/2015  | Wu            | ..... | D27/101                    |
| D545,904  | S †  | 7/2007  | Chen          | ..... | D19/66                     | D726,727  | S †  | 4/2015  | Holz          | ..... | D14/407                    |
| D546,782  | S †  | 7/2007  | Poulet        | ..... | D13/168                    | D729,277  | S †  | 5/2015  | Uchida        | ..... | D14/496                    |
| 7,275,941 | B1 † | 10/2007 | Bushby        | ..... | H01R 13/6397<br>439/133    | D729,441  | S †  | 5/2015  | Hua           | ..... | D27/101                    |
| D556,154  | S †  | 11/2007 | Poulet        | ..... | D13/168                    | D737,508  | S †  | 8/2015  | Liu           | ..... | D27/189                    |
| D558,060  | S †  | 12/2007 | Šir           | ..... | D9/687                     | D738,038  | S †  | 9/2015  | Smith         | ..... | D27/170                    |
| 7,318,435 | B2 † | 1/2008  | Pentafragas   | ..... | A61M 15/0031<br>128/203.15 | D739,973  | S †  | 9/2015  | Chao          | ..... | D26/113                    |
| D566,709  | S †  | 4/2008  | Kim           | ..... | D14/480.5                  | D741,541  | S *  | 10/2015 | Liu           | ..... | D27/193                    |
| D568,298  | S †  | 5/2008  | Lundgren      | ..... | D14/218                    | D742,063  | S †  | 10/2015 | Recio         | ..... | D27/141                    |
| D571,556  | S †  | 6/2008  | Raile         | ..... | D3/265                     | 9,167,849 | B2 † | 10/2015 | Adamic        | ..... | A24F 13/06                 |
| D573,464  | S †  | 7/2008  | Kogure        | ..... | D9/452                     | D745,004  | S †  | 12/2015 | Kim           | ..... | G09G 5/14<br>D14/341       |
| D576,619  | S †  | 9/2008  | Udagawa       | ..... | D14/435.1                  | D745,388  | S †  | 12/2015 | Taylor        | ..... | D9/418                     |
| D577,019  | S †  | 9/2008  | Udagawa       | ..... | D14/435.1                  | D748,325  | S †  | 1/2016  | Leidel        | ..... | D27/163                    |
| D585,077  | S †  | 1/2009  | Sheba         | ..... | D14/496                    | D749,261  | S †  | 2/2016  | Chen          | ..... | D27/162                    |
| D589,941  | S †  | 4/2009  | Maier         | ..... | D14/218                    | D749,510  | S †  | 2/2016  | Liu           | ..... | D27/194                    |
| D591,758  | S †  | 5/2009  | Lee           | ..... | D14/480.7                  | D750,320  | S †  | 2/2016  | Verleur       | ..... | H05B 3/06<br>D27/101       |
| 7,644,823 | B2 † | 1/2010  | Gelardi       | ..... | B65D 25/10<br>206/485      | D751,756  | S †  | 3/2016  | Hearn         | ..... | D27/189                    |
| D609,516  | S *  | 2/2010  | Vining        | ..... | D6/552                     | D752,278  | S †  | 3/2016  | Verleur       | ..... | D27/101                    |
| D610,588  | S †  | 2/2010  | Chen          | ..... | D14/480.7                  | D752,280  | S †  | 3/2016  | Verleur       | ..... | D27/167                    |
| D616,753  | S †  | 6/2010  | Beam          | ..... | D9/449                     | D752,282  | S †  | 3/2016  | Doster        | ..... | D27/189                    |
| D624,880  | S †  | 10/2010 | Felegy, Jr.   | ..... | D13/168                    | D752,284  | S †  | 3/2016  | Doster        | ..... | D27/189                    |
| D627,962  | S †  | 11/2010 | Mudrick       | ..... | D3/208                     | D753,090  | S †  | 4/2016  | Langhammer    | ..... | D14/203.3                  |
|           |      |         |               |       |                            | D755,733  | S †  | 5/2016  | Ikegaya       | ..... | D13/168                    |
|           |      |         |               |       |                            | D755,735  | S †  | 5/2016  | Kashimoto     | ..... | D13/168                    |
|           |      |         |               |       |                            | D756,032  | S †  | 5/2016  | Chen          | ..... | D27/189                    |
|           |      |         |               |       |                            | D757,690  | S †  | 5/2016  | Lee           | ..... | D14/218                    |
|           |      |         |               |       |                            | D758,650  | S †  | 6/2016  | Wu            | ..... | D27/101                    |

(56)

References Cited

U.S. PATENT DOCUMENTS

|                 |         |            |             |                   |         |             |                            |
|-----------------|---------|------------|-------------|-------------------|---------|-------------|----------------------------|
| D759,031 S †    | 6/2016  | Ozolins    | D14/480.5   | D878,672 S †      | 3/2020  | Beer        | D27/162                    |
| D760,431 S †    | 6/2016  | Liu        | D27/189     | D881,459 S †      | 4/2020  | Ouyang      | D27/162                    |
| D762,001 S †    | 7/2016  | Liu        | D27/101     | D885,332 S †      | 5/2020  | Han         | D13/108                    |
| D763,203 S †    | 8/2016  | Ikegaya    | D13/168     | D889,740 S †      | 7/2020  | Beer        | D27/194                    |
| D763,204 S †    | 8/2016  | Ikegaya    | D13/168     | D894,479 S †      | 8/2020  | Cheung      | D27/162                    |
| D764,703 S †    | 8/2016  | Liu        | D27/101     | D895,197 S †      | 9/2020  | Cheung      | D27/101                    |
| D766,873 S †    | 9/2016  | Washio     | D14/214     | D898,278 S †      | 10/2020 | Carlberg    | D27/162                    |
| D768,920 S †    | 10/2016 | Jones      | D27/189     | D903,192 S †      | 11/2020 | Chang       | D27/162                    |
| D769,520 S †    | 10/2016 | Hua        | D27/167     | D904,301 S †      | 12/2020 | Smalley     | D13/110                    |
| D769,830 S †    | 10/2016 | Clymer     | D13/168     | D943,765 S *      | 2/2022  | Griffin     | D24/231                    |
| D770,395 S †    | 11/2016 | Clymer     | D13/168     | 11,246,679 B2 *   | 2/2022  | Griffin     | A61C 3/04                  |
| D772,478 S †    | 11/2016 | Liu        | D27/167     | D948,890 S *      | 4/2022  | Wasvick     | D6/552                     |
| D773,114 S †    | 11/2016 | Leidel     | D27/163     | D951,067 S *      | 5/2022  | Cressy      | D8/356                     |
| D773,391 S †    | 12/2016 | Haarburger | D13/107     | 2001/0032643 A1 † | 10/2001 | Hochrainer  | A61K 9/0078<br>128/200.21  |
| D773,727 S †    | 12/2016 | Eksouzian  | D27/101     | 2002/0043262 A1 † | 4/2002  | Langford    | B65D 83/38<br>222/23       |
| D774,247 S †    | 12/2016 | Chen       | D27/101     | 2004/0200488 A1 † | 10/2004 | Felter      | A24F 40/485<br>131/194     |
| D774,514 S †    | 12/2016 | Turksu     | D14/480.5   | 2005/0016533 A1 † | 1/2005  | Schuler     | A61M 16/0493<br>128/203.15 |
| D774,693 S †    | 12/2016 | Liu        | D27/162     | 2005/0029137 A1 † | 2/2005  | Wang        | H05K 5/0278<br>206/521     |
| D775,413 S †    | 12/2016 | Liu        | D27/101     | 2005/0118545 A1 † | 6/2005  | Wong        | F23Q 2/40<br>431/146       |
| D776,051 S †    | 1/2017  | Wang       | D13/103     | 2005/0252511 A1 † | 11/2005 | Pentafragas | A61M 15/0021<br>128/203.15 |
| D776,338 S †    | 1/2017  | Lomeli     | D27/163     | 2005/0268911 A1 † | 12/2005 | Cross       | A61M 15/0081<br>128/203.26 |
| 9,549,573 B2 †  | 1/2017  | Monsees    | H05B 3/04   | 2006/0196518 A1 † | 9/2006  | Hon         | A24F 40/40<br>131/347      |
| D778,492 S †    | 2/2017  | Liu        | D27/101     | 2007/0089757 A1 † | 4/2007  | Bryman      | A24F 3/00<br>131/330       |
| D779,677 S †    | 2/2017  | Chen       | D24/215     | 2007/0229025 A1 † | 10/2007 | Tsai        | H01R 31/065<br>320/111     |
| D779,719 S †    | 2/2017  | Qiu        | D27/101     | 2008/0023003 A1 † | 1/2008  | Rosenthal   | A61M 15/06<br>128/203.26   |
| D780,179 S †    | 2/2017  | Bae        | D14/138     | 2009/0151717 A1 † | 6/2009  | Bowen       | A61M 11/048<br>128/200.23  |
| 9,575,278 B2 *  | 2/2017  | Leclerc    | G02B 6/4471 | 2009/0260641 A1 † | 10/2009 | Monsees     | A24F 40/48<br>131/194      |
| 9,596,887 B2 †  | 3/2017  | Newton     | A24F 40/485 | 2009/0260642 A1 † | 10/2009 | Monsees     | A24F 7/00<br>131/194       |
| 9,603,390 B2 †  | 3/2017  | Li         | A24F 40/44  | 2009/0272379 A1 † | 11/2009 | Thorens     | A24D 3/18<br>219/535       |
| D784,609 S †    | 4/2017  | Liu        | D27/101     | 2010/0307116 A1 † | 12/2010 | Fisher      | B65D 77/20<br>206/505      |
| D790,127 S *    | 6/2017  | Verleur    | D6/552      | 2010/0313901 A1 † | 12/2010 | Fernando    | H02J 7/0044<br>131/330     |
| D792,021 S †    | 7/2017  | Beer       | D27/101     | 2011/0125146 A1 † | 5/2011  | Greeley     | A61B 18/18<br>606/33       |
| D793,004 S †    | 7/2017  | Liu        | D27/189     | 2011/0265806 A1 † | 11/2011 | Alarcon     | A24F 40/50<br>131/273      |
| D793,620 S †    | 8/2017  | Bennett    | D27/194     | 2012/0018529 A1 † | 1/2012  | Gammon      | A61L 9/03<br>239/34        |
| 9,723,877 B2 †  | 8/2017  | Wong       | A24F 40/90  | 2012/0325227 A1 † | 12/2012 | Robinson    | A61M 16/108<br>131/328     |
| D799,746 S †    | 10/2017 | Leidel     | D27/163     | 2013/0042865 A1 † | 2/2013  | Monsees     | H05B 3/146<br>128/203.27   |
| D802,206 S †    | 11/2017 | Huang      | D27/101     | 2013/0220847 A1 † | 8/2013  | Fisher      | G06F 1/1628<br>206/216     |
| D806,311 S †    | 12/2017 | Smith      | D27/162     | 2013/0228191 A1 † | 9/2013  | Newton      | A24F 40/44<br>131/329      |
| D811,003 S †    | 2/2018  | Folyan     | D27/101     | 2013/0312742 A1 † | 11/2013 | Monsees     | A24F 1/32<br>128/202.21    |
| D815,346 S †    | 4/2018  | Bagai      | D27/191     | 2014/0021190 A1 † | 1/2014  | Sardar      | F23Q 7/16<br>219/268       |
| 9,956,357 B2 †  | 5/2018  | Chen       | A61M 11/04  | 2015/0034104 A1 † | 2/2015  | Zhou        | A24F 40/485<br>131/329     |
| D819,881 S †    | 6/2018  | Qiu        | D27/101     | 2015/0034507 A1 † | 2/2015  | Liu         | B65D 85/10<br>206/256      |
| D822,896 S †    | 7/2018  | Durand     | D27/101     | 2015/0053217 A1 † | 2/2015  | Steingraber | A24F 40/50<br>131/329      |
| D825,102 S †    | 8/2018  | Bowen      | D27/167     | 2015/0102777 A1 † | 4/2015  | Cooper      | H02J 7/342<br>320/137      |
| 10,045,568 B2 † | 8/2018  | Monsees    | H05B 1/0244 |                   |         |             |                            |
| 10,058,124 B2 † | 8/2018  | Monsees    | A61M 11/042 |                   |         |             |                            |
| 10,058,129 B2 † | 8/2018  | Monsees    | A61M 11/042 |                   |         |             |                            |
| D829,371 S †    | 9/2018  | Durand     | D27/101     |                   |         |             |                            |
| D829,980 S †    | 10/2018 | Qiu        | D27/162     |                   |         |             |                            |
| D831,378 S *    | 10/2018 | Crowe      | D6/552      |                   |         |             |                            |
| D832,499 S †    | 10/2018 | Qiu        | D27/162     |                   |         |             |                            |
| D832,500 S †    | 10/2018 | Qiu        | D27/162     |                   |         |             |                            |
| D834,702 S †    | 11/2018 | Evans      | D27/101     |                   |         |             |                            |
| D836,190 S †    | 12/2018 | Evans      | D24/110     |                   |         |             |                            |
| D836,831 S †    | 12/2018 | Cividi     | D27/162     |                   |         |             |                            |
| D836,834 S †    | 12/2018 | Cividi     | D27/194     |                   |         |             |                            |
| D837,446 S †    | 1/2019  | Durand     | D27/101     |                   |         |             |                            |
| D842,237 S †    | 3/2019  | Qiu        | D27/101     |                   |         |             |                            |
| D842,536 S †    | 3/2019  | Bowen      | D27/167     |                   |         |             |                            |
| D843,644 S †    | 3/2019  | Qiu        | D27/101     |                   |         |             |                            |
| D844,235 S †    | 3/2019  | Cividi     | D27/167     |                   |         |             |                            |
| D845,964 S †    | 4/2019  | Kim        | D14/480.5   |                   |         |             |                            |
| D853,022 S †    | 7/2019  | Srour      | D27/183     |                   |         |             |                            |
| D855,251 S †    | 7/2019  | Qiu        | D27/162     |                   |         |             |                            |
| D858,868 S †    | 9/2019  | Bowen      | D27/162     |                   |         |             |                            |
| D858,869 S †    | 9/2019  | Bowen      | D27/162     |                   |         |             |                            |
| D858,870 S †    | 9/2019  | Bowen      | D27/162     |                   |         |             |                            |
| D859,735 S †    | 9/2019  | Qiu        | D27/162     |                   |         |             |                            |
| D860,519 S †    | 9/2019  | Cividi     | D27/162     |                   |         |             |                            |
| D860,520 S †    | 9/2019  | Cividi     | D27/162     |                   |         |             |                            |
| D861,975 S †    | 10/2019 | Bowen      | D27/162     |                   |         |             |                            |
| D865,276 S †    | 10/2019 | Pino       | D27/162     |                   |         |             |                            |
| D866,852 S †    | 11/2019 | Cividi     | D27/101     |                   |         |             |                            |
| D870,034 S †    | 12/2019 | Lai        | D13/103     |                   |         |             |                            |
| D877,971 S †    | 3/2020  | Bowen      | D27/101     |                   |         |             |                            |

(56)

References Cited

U.S. PATENT DOCUMENTS

2015/0114410 A1 ‡ 4/2015 Doster ..... A24F 40/40  
131/329  
2015/0122252 A1 ‡ 5/2015 Frija ..... A24F 40/65  
128/202.21  
2015/0128967 A1 ‡ 5/2015 Robinson ..... A24F 40/50  
131/328  
2015/0128971 A1 ‡ 5/2015 Verleur ..... A61M 11/042  
131/329  
2015/0128972 A1 ‡ 5/2015 Verleur ..... A61M 11/042  
131/329  
2015/0128976 A1 ‡ 5/2015 Verleur ..... A24F 40/50  
131/329  
2015/0157056 A1 ‡ 6/2015 Bowen ..... A61M 15/0035  
131/328  
2015/0189919 A1 ‡ 7/2015 Liu ..... A24F 40/40  
131/329  
2015/0208729 A1 ‡ 7/2015 Monsees ..... A24F 40/42  
131/329  
2015/0245654 A1 ‡ 9/2015 Memari ..... H02J 50/10  
141/2  
2015/0282530 A1 ‡ 10/2015 Johnson ..... A24F 40/485  
392/394  
2015/0305409 A1 ‡ 10/2015 Verleur ..... A24F 40/40  
131/329  
2015/0313287 A1 ‡ 11/2015 Verleur ..... F22B 1/284  
131/329  
2015/0327596 A1 ‡ 11/2015 Alarcon ..... A61M 15/06  
131/328  
2015/0328415 A1 ‡ 11/2015 Minskoff ..... A24F 40/60  
128/202.21  
2015/0374039 A1 ‡ 12/2015 Zhu ..... H05B 3/03  
131/329  
2016/0007654 A1 ‡ 1/2016 Zhu ..... A24F 40/42  
131/328  
2016/0095355 A1 ‡ 4/2016 Hearn ..... A24F 40/485  
131/273  
2016/0095356 A1 ‡ 4/2016 Chan ..... A24F 40/30  
392/390  
2016/0113323 A1 ‡ 4/2016 Liu ..... A24F 15/01  
206/268  
2016/0121058 A1 ‡ 5/2016 Chen ..... A24F 40/40  
128/200.19  
2016/0134143 A1 ‡ 5/2016 Liu ..... A24F 40/95  
206/223  
2016/0143358 A1 ‡ 5/2016 Zhu ..... A24F 40/46  
392/404  
2016/0150824 A1 ‡ 6/2016 Memari ..... A24F 40/40  
131/329  
2016/0166564 A1 ‡ 6/2016 Myers ..... A61M 15/06  
392/386  
2016/0167846 A1 ‡ 6/2016 Zahr ..... B65D 43/165  
206/268  
2016/0174611 A1 ‡ 6/2016 Monsees ..... A24F 40/50  
392/386  
2016/0192707 A1 ‡ 7/2016 Li ..... H05B 3/00  
392/404  
2016/0227841 A1 ‡ 8/2016 Li ..... H05B 3/42  
2016/0270446 A1 ‡ 9/2016 Shenkal ..... H05B 3/40  
2016/0278436 A1 ‡ 9/2016 Verleur ..... H02J 7/0045  
2016/0295913 A1 ‡ 10/2016 Guo ..... A24F 40/485  
2016/0324211 A1 ‡ 11/2016 Yankelevich ..... A24F 1/00  
2016/0331912 A1 ‡ 11/2016 Trzemieski ..... A61M 11/042  
2016/0345626 A1 ‡ 12/2016 Wong ..... A24F 40/40  
2016/0353805 A1 ‡ 12/2016 Hawes ..... A61M 15/06  
2016/0360789 A1 ‡ 12/2016 Hawes ..... A24F 40/40  
2016/0366943 A1 ‡ 12/2016 Li ..... A24F 40/42  
2016/0366947 A1 ‡ 12/2016 Monsees ..... H05B 3/04  
2016/0374399 A1 ‡ 12/2016 Monsees ..... A24F 40/60  
131/329  
2017/0000190 A1 ‡ 1/2017 Wu ..... H05B 3/44  
2017/0013875 A1 ‡ 1/2017 Schennum ..... A24F 40/95  
2017/0035115 A1 ‡ 2/2017 Monsees ..... A61M 15/06

2017/0042246 A1 ‡ 2/2017 Lau ..... H05B 1/0297  
2017/0049153 A1 ‡ 2/2017 Guo ..... H05B 3/18  
2017/0065001 A1 ‡ 3/2017 Li ..... F16K 15/14  
2017/0071256 A1 ‡ 3/2017 Verleur ..... A24F 40/485  
2017/0095005 A1 ‡ 4/2017 Monsees ..... A61M 11/042  
2017/0119044 A1 ‡ 5/2017 Oligschlaeger ..... B65D 25/10  
2017/0119060 A1 ‡ 5/2017 Li ..... A24F 40/44  
2017/0150754 A1 ‡ 6/2017 Lin ..... A24F 40/40  
2017/0181471 A1 ‡ 6/2017 Phillips ..... A24F 40/60  
2017/0196264 A1 ‡ 7/2017 Liu ..... A24F 40/60  
2017/0197046 A1 ‡ 7/2017 Buchberger ..... A61M 15/0086  
2017/0202265 A1 ‡ 7/2017 Hawes ..... A61M 11/041  
2017/0208863 A1 ‡ 7/2017 Davis ..... A24F 40/485  
2017/0215478 A1 ‡ 8/2017 Harrison ..... A24F 40/46  
2017/0231280 A1 ‡ 8/2017 Anton ..... A24F 40/65  
392/404  
2017/0231281 A1 ‡ 8/2017 Hatton ..... G01L 9/12  
131/328  
2017/0231282 A1 ‡ 8/2017 Bowen ..... A24B 15/167  
131/329  
2017/0233114 A1 ‡ 8/2017 Christensen ..... B65B 3/14  
141/2  
2017/0258142 A1 ‡ 9/2017 Hatton ..... A24F 40/51  
2017/0259170 A1 ‡ 9/2017 Bowen ..... A24F 40/60  
2017/0302324 A1 ‡ 10/2017 Stanimirovic ..... H02J 7/342  
2017/0360092 A1 ‡ 12/2017 Althorpe ..... F22B 1/284  
2018/0070649 A1 ‡ 3/2018 Monsees ..... A24B 15/167  
2018/0103686 A1 ‡ 4/2018 Monsees ..... H05B 1/0244  
2018/0140005 A1 ‡ 5/2018 Lin ..... H05B 3/44  
2018/0140015 A1 ‡ 5/2018 Carroll ..... A24F 40/53  
2018/0177234 A1 ‡ 6/2018 Lee ..... A61M 15/06

OTHER PUBLICATIONS

PAX Labs, Inc.; JUUL product information 2016; retrieved from <<https://www.juulvapor.com/shop-juul/>> 6 pgs.; retrieved Mar. 9, 2016. ‡  
Making a box for my Straight Razor by Mr. Mars Experience, dated Jan. 22, 2014. found online [Mar. 19, 2019] <https://www.youtube.com/watch?v=Z7iAx2QoKDO>. ‡  
Shapiro, “Following the Vapor Trail,” <https://www.nytimes.com/2013/12/19/fashion/for-vaporizers-new-technology-and-product-design.html>, Dec. 18, 2013 (3 pages). ‡  
Pierce, D. This Might Just Be the First Great E-Cig. {online} Wired, Published on Apr. 21, 2015. Available at: <https://www.wired.com/2015/04/pax-juul-ecig/?mbid=socialtwitter>. ‡  
Pentel Multi Color Led Refill by Pentel on Amazon, earliest review dated Nov. 7, 2014. found online [Mar. 22, 2019] [https://www.amazon.com/Pentel-Multi-Refill-Violet-CH2-V/product-reviews/BOOKQTBPWCW/ref=cnn\\_cr\\_dp\\_d\\_show\\_all\\_btn?ie=UTF8&reviewerType=all\\_reviews](https://www.amazon.com/Pentel-Multi-Refill-Violet-CH2-V/product-reviews/BOOKQTBPWCW/ref=cnn_cr_dp_d_show_all_btn?ie=UTF8&reviewerType=all_reviews). ‡  
IWand Rectangular Pen Shape Design Flat Short Mouth Holder 1.OML Tank Atomizer LED Display 800mAh Rechargeable E-Cigarette Set—COLORFUL, tDIIUYTY,f,1,111111LcZn11Ltf2ILgliL1rt11112,111, accessed Jan. 25, 2019. (3 pages). ‡  
German Straight Razor box by rainbobeBayauctions on ebay. dated May 11, 2012. found online [Mar. 22, 2019] <https://www.bing.com/videos/search?q=straight+razor+cardboard+box&&view=detail&nid=4EFBC9664DDFEA73A2974EFBC9664DDFEA73A297&&FORM=VRDGAR>. ‡  
Electronic Vaporization Device/ Gizmodo Pax 2 Vaporizer/ Gizmodo; retrieved from <http://gizmodo.com/pax-2-vaporizer-reviews-its-like-smoking-in-the-future-1718310779>; posted Jul. 23, 2015, retrieved Oct. 17, 2016. ‡  
Cedar Board by the home depot, earliest review dated Sept 7, 2016. found online [Mar. 19, 2019] <https://www.homedepot.com/p/1-in-x-4-in-x-8-ft-S1-S2E-Cedar-Board-6-Pack-WRC148T6PK/300194383>. ‡  
Breland, Alison, et al. “Electronic cigarettes: what are they and what do they do?.” *Annals of the New York Academy of Sciences* 1394.1 (2017): 5-30. ‡

(56)

**References Cited**

OTHER PUBLICATIONS

Electronic Vaporization Device with Cartridge 1JUUL Pod 1JUUL Vapor, Posted Jun. 3, 2015, Juulvapor.com <<http://Juulvapor.com>>, retrieved Nov. 24, 2015, <<https://www.iuulvapor.com/shopiuul/>>.‡  
Cloud pen vaporizer unboxing review by vaporizer blog // VaporizerBlog.com, <https://www.youtube.com/watch?v=ixHMkXoWKNg>, published on Dec. 12, 2013 (4 pages).‡  
FC Vaporizer Review Forum; Pax Vaporizer by Ploom; retrieved from : <http://fuckcombtion.com/threads/pax-vaporizer-by-ploom.6223/>; pp. 2 & 11 (2 pgs.); retrievaldate: Nov. 16, 2015.‡

\* cited by examiner

‡ imported from a related application

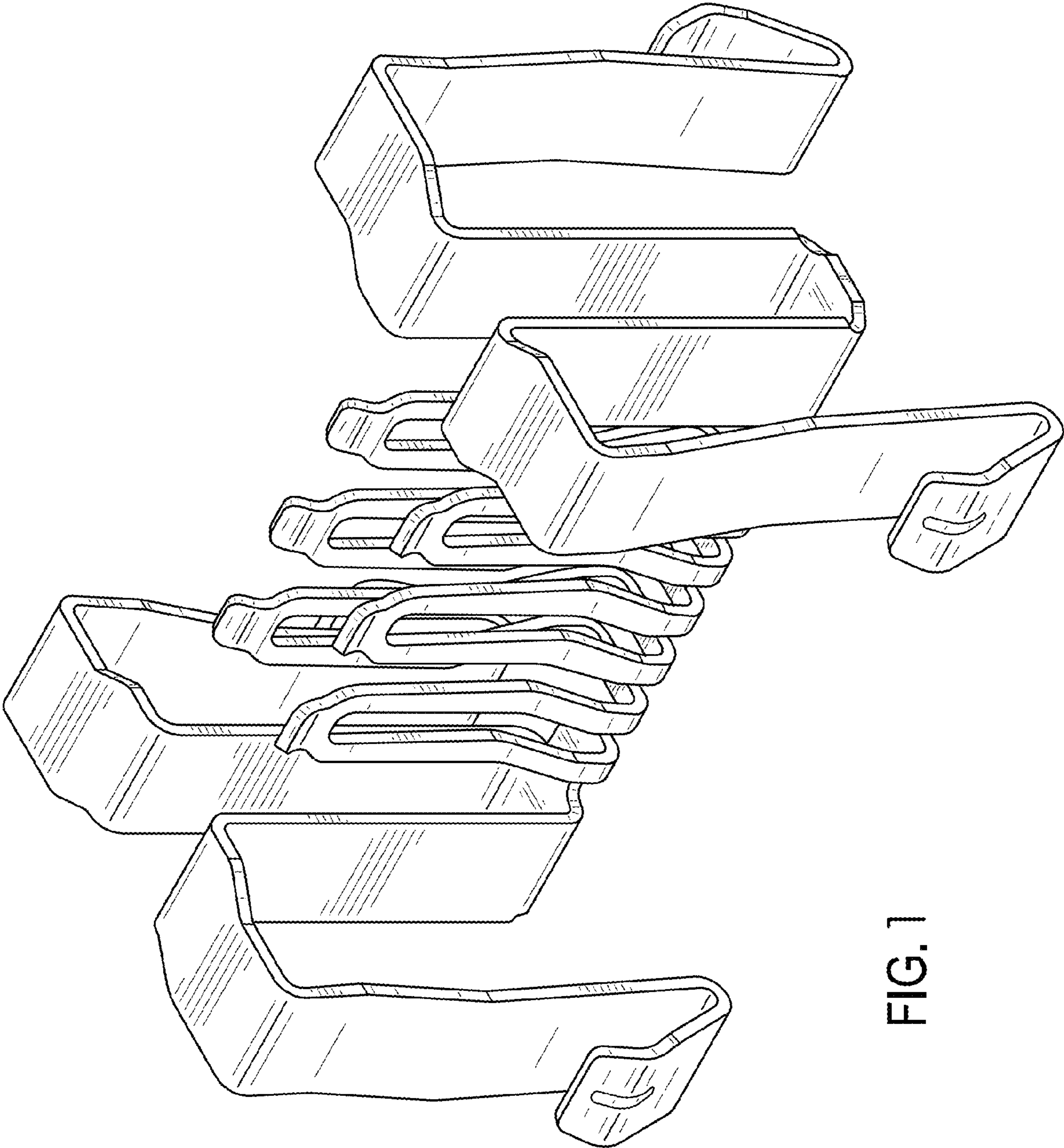


FIG. 1

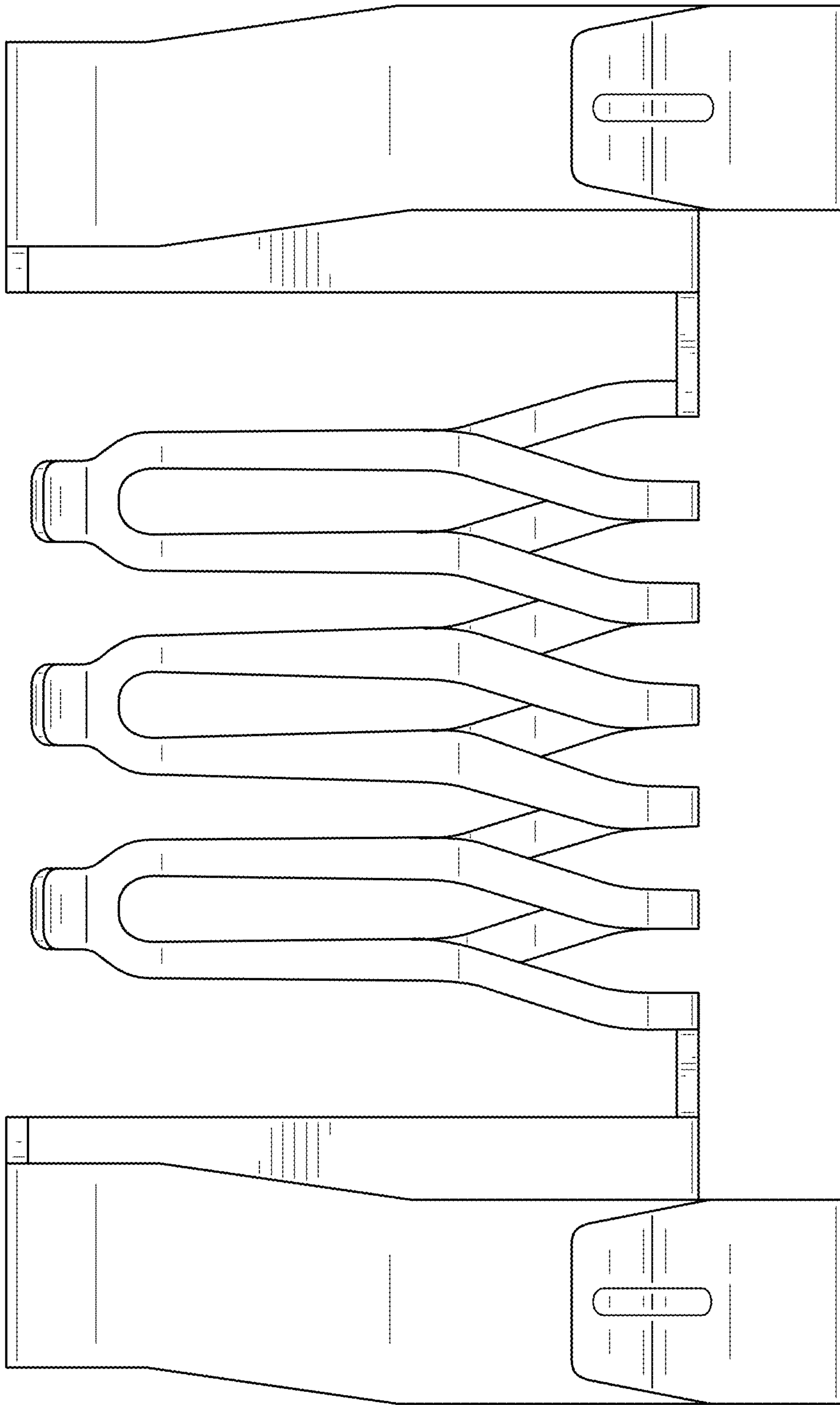


FIG. 2

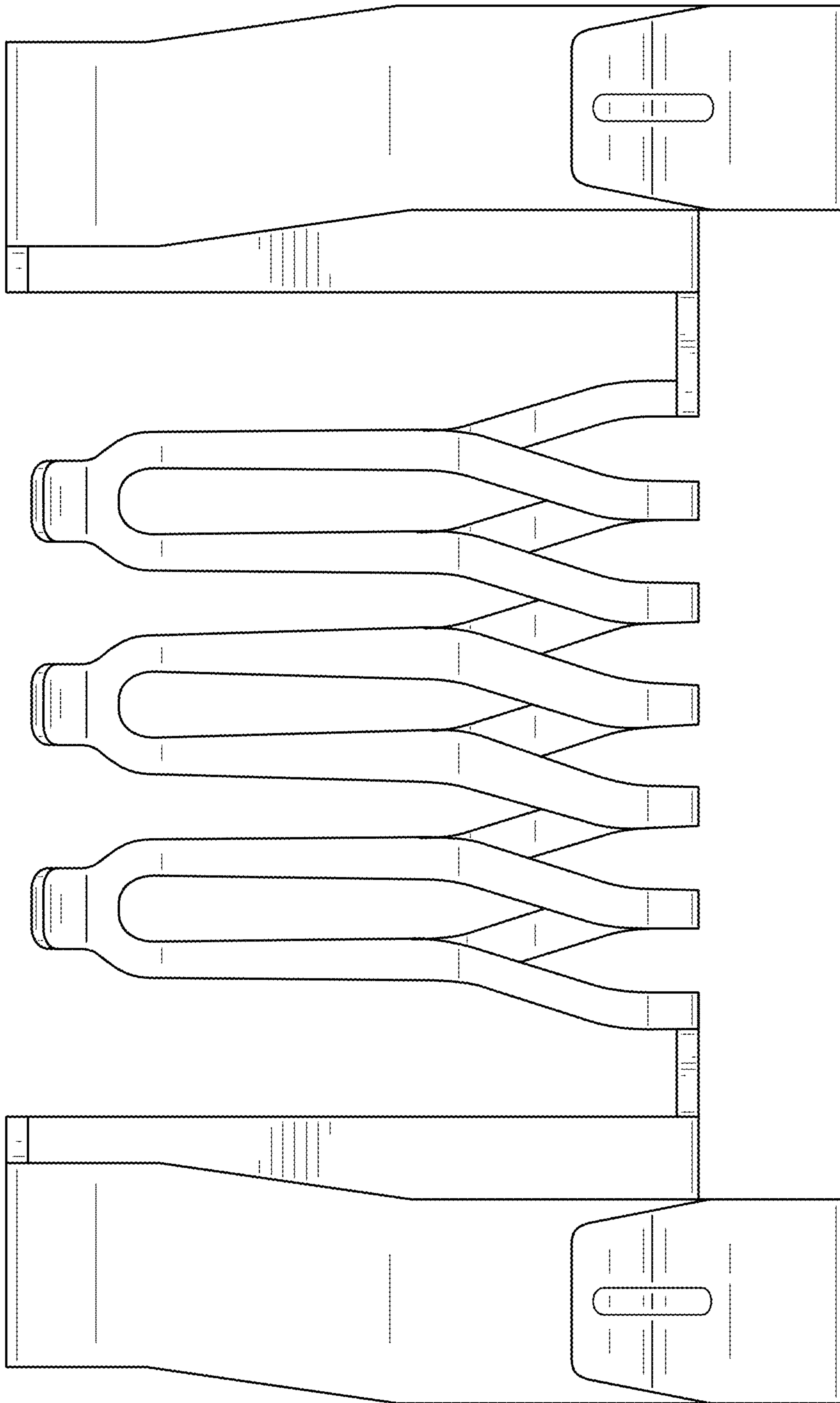


FIG. 3



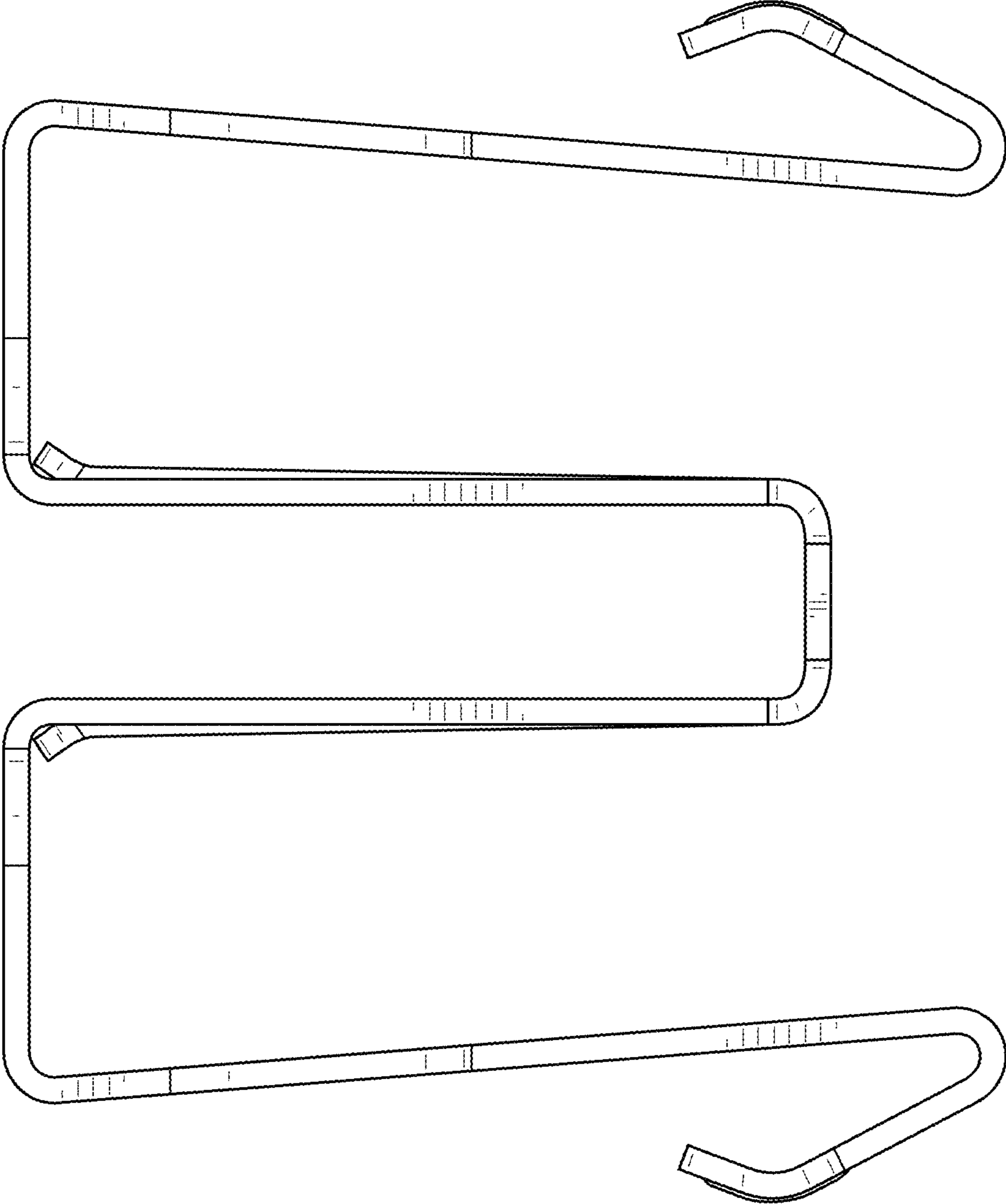


FIG. 4

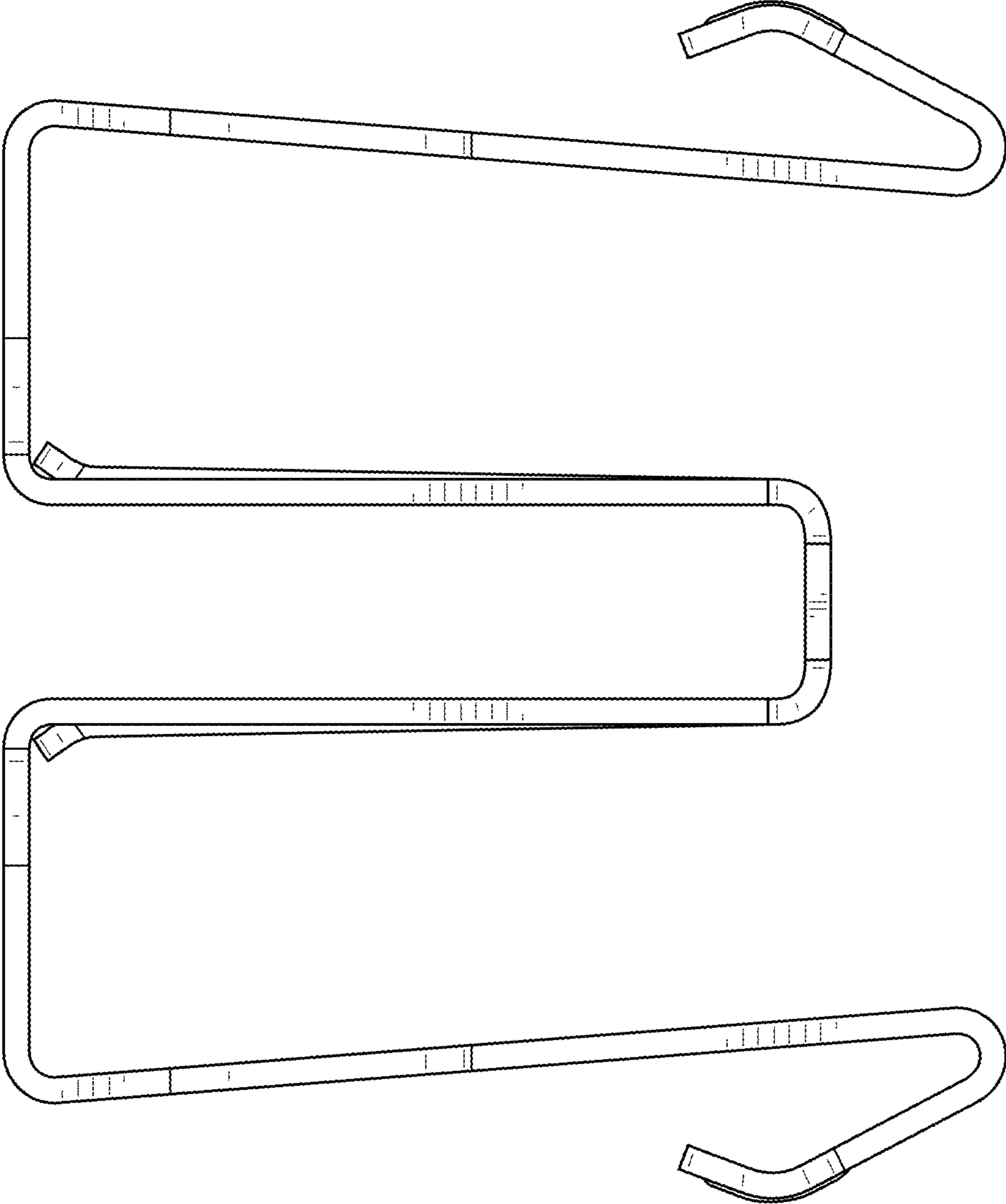


FIG. 5

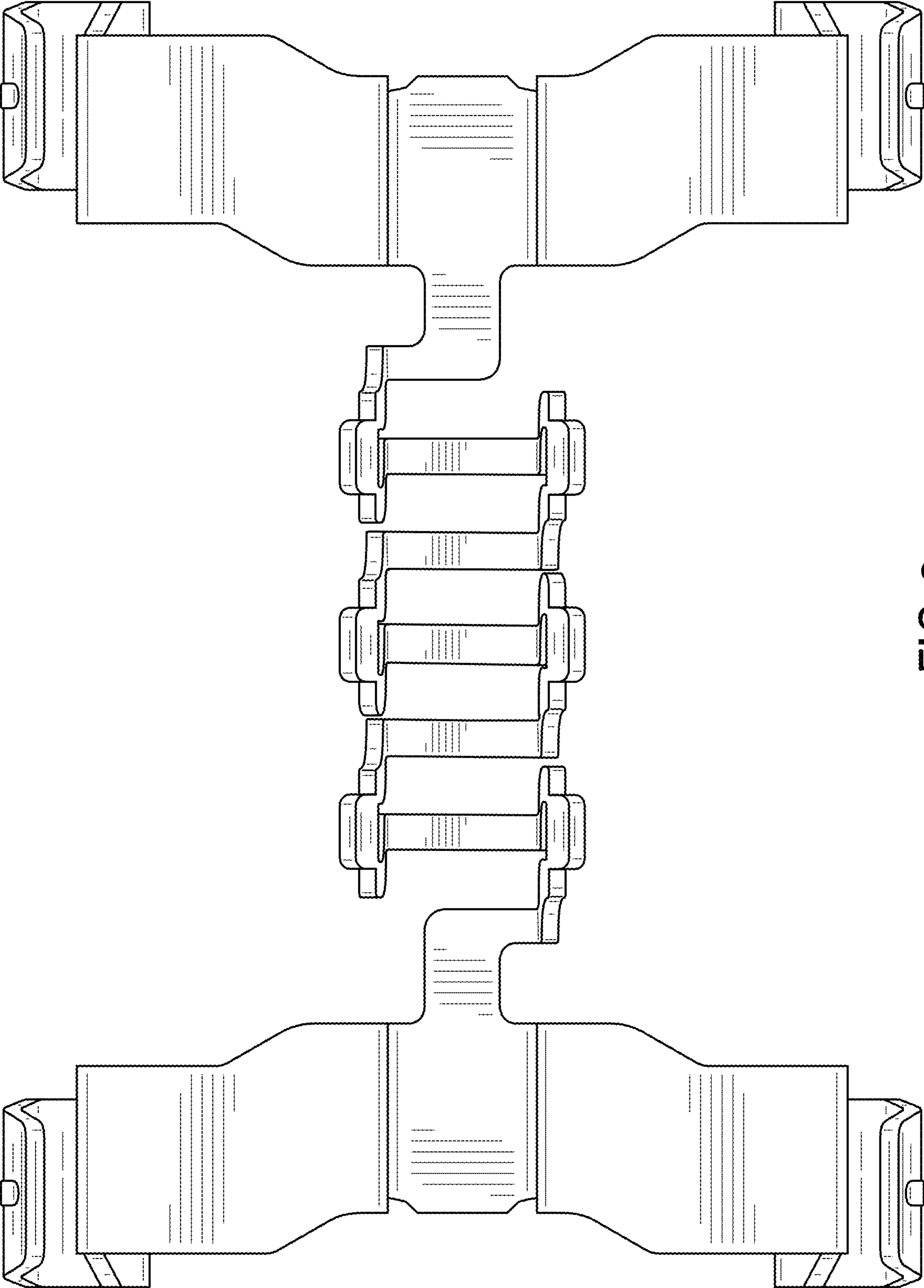


FIG. 6

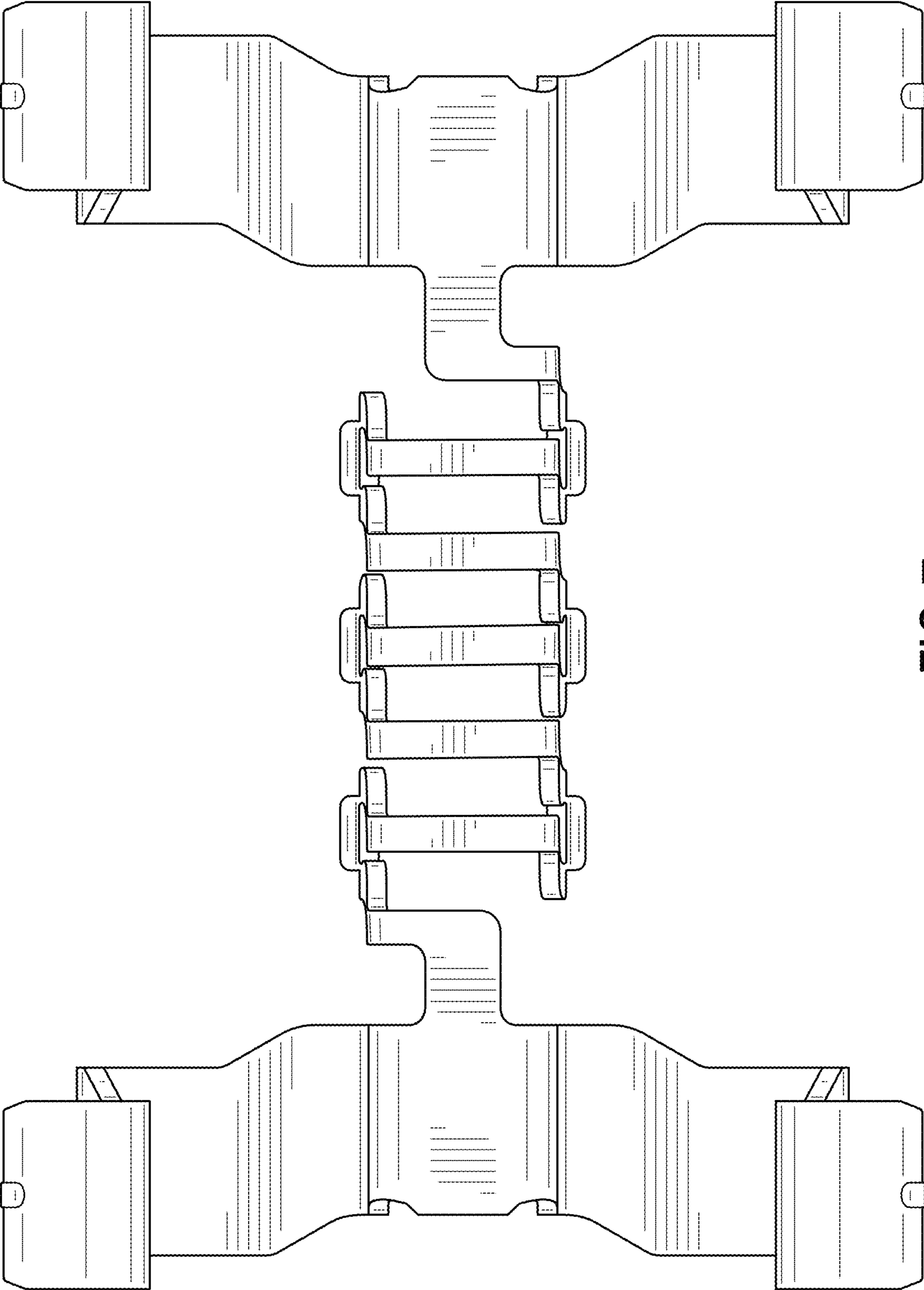


FIG. 7