



US00D873806S

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

(10) **Patent No.: US D873,806 S**  
(45) **Date of Patent: \*\* Jan. 28, 2020**

(54) **ANTENNA**  
(71) Applicant: **Cheng Uei Precision Industry Co., Ltd.**, New Taipei (TW)  
(72) Inventors: **James Cheng Lee**, La Habra, CA (US); **Kuo Yang Wu**, New Taipei (TW); **Wen Bing Hsu**, New Taipei (TW); **Jui Hui Lin**, New Taipei (TW); **Kuo Wei Chang**, New Taipei (TW)  
(73) Assignee: **Cheng Uei Precision Industry Co., Ltd.**, New Taipei (TW)  
(\*\*) Term: **15 Years**

3,037,293 A \* 6/1962 Yost ..... B43L 11/06  
33/565  
3,130,368 A \* 4/1964 Hoover ..... G01R 29/0878  
343/703  
3,289,299 A \* 12/1966 Elger ..... B43L 13/00  
33/27.01  
4,185,392 A \* 1/1980 Berkman ..... B43L 13/208  
33/564  
D257,656 S \* 12/1980 Walker ..... D10/64  
4,368,472 A \* 1/1983 Gandhi ..... H01Q 1/24  
343/718  
4,369,583 A \* 1/1983 Brighty ..... B43L 7/12  
33/403  
D268,597 S \* 4/1983 Spence ..... D10/64  
D279,797 S \* 7/1985 Brunetto ..... D10/64  
(Continued)

(21) Appl. No.: **29/659,774**  
(22) Filed: **Aug. 13, 2018**  
(51) **LOC (12) Cl.** ..... **14-03**  
(52) **U.S. Cl.**  
USPC ..... **D14/230**  
(58) **Field of Classification Search**  
USPC ..... D14/230, 232-236, 485, 488-489, 492;  
D19/39-40  
CPC .. H01Q 1/24; H01Q 1/22; H01Q 1/38; H01Q  
9/28; H01Q 1/12; B43L 13/00; B43L  
13/20  
See application file for complete search history.

**FOREIGN PATENT DOCUMENTS**

CN 302849654 \* 6/2014

**OTHER PUBLICATIONS**

Single-Side—Foxlink Group, website 2019, <https://www.foxlink.com/web/en/portfolio-item/single-side/>, site visited Sep. 21, 2019 (Year: 2019).\*

(Continued)

*Primary Examiner* — Lilyana Bekic  
*Assistant Examiner* — John R Yeh  
(74) *Attorney, Agent, or Firm* — Lin & Associates  
Intellectual Property, Inc.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

217,736 A \* 7/1879 Kibbe ..... B43L 7/0275  
33/474  
1,369,470 A \* 2/1921 Sverre Rian ..... B43L 13/208  
33/564  
1,409,723 A \* 3/1922 Stanley ..... B43L 13/20  
33/1 A  
1,604,232 A \* 10/1926 Lipke ..... B43L 13/205  
33/1 A  
D118,824 S \* 2/1940 Lettino ..... D19/39  
D175,489 S \* 9/1955 Arnold ..... D14/230

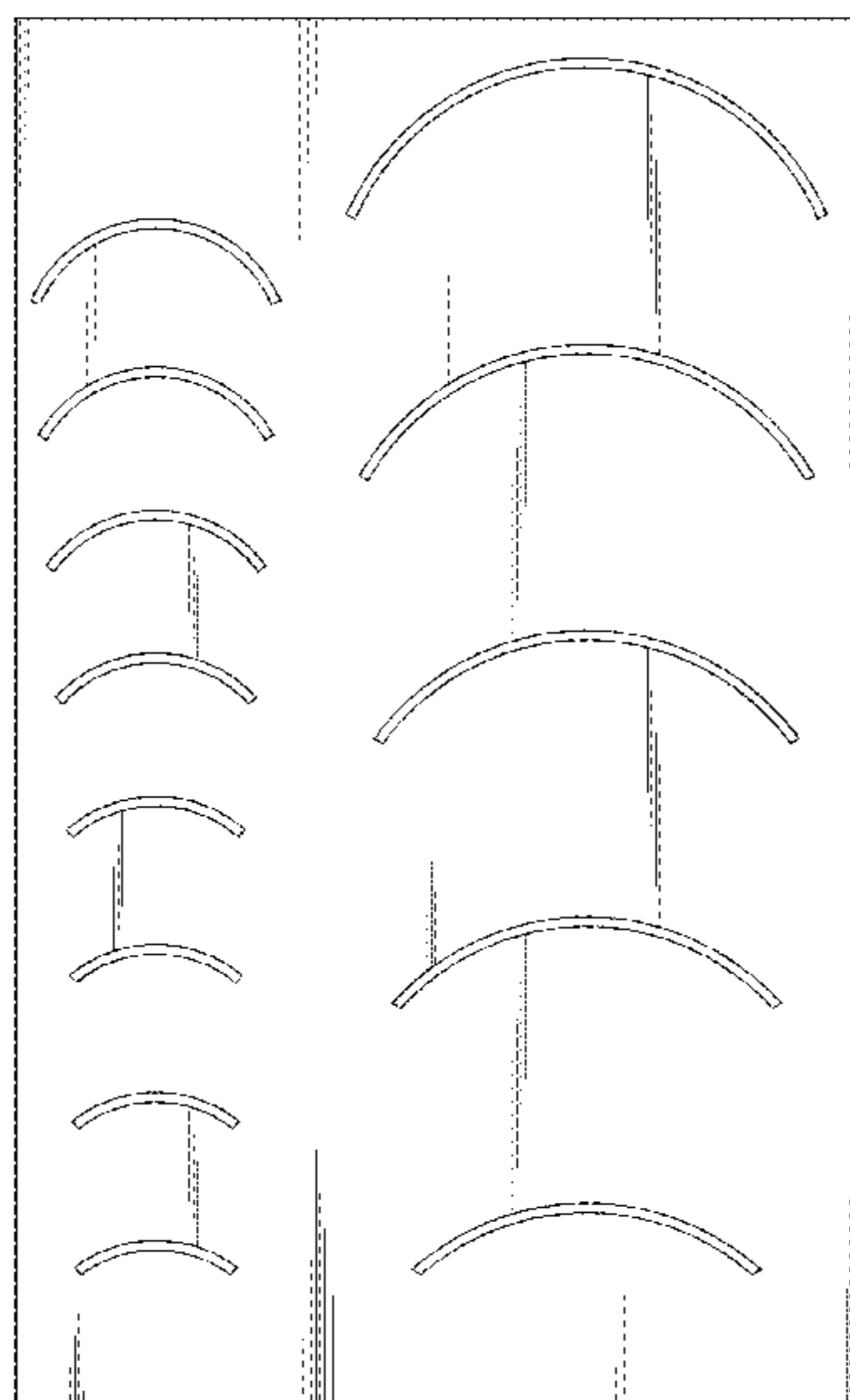
(57) **CLAIM**

The ornamental design for an antenna, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of an antenna showing our new design; and,  
FIG. 2 is a rear elevational view thereof.

**1 Claim, 2 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D281,887 S \* 12/1985 Lapsins ..... D10/62  
 H000646 H \* 6/1989 Tsui ..... 343/700 MS  
 4,975,811 A \* 12/1990 Fraser ..... F21S 8/00  
 239/18  
 D314,034 S \* 1/1991 Young ..... D21/816  
 5,392,388 A \* 2/1995 Gibson ..... G06F 3/04845  
 345/684  
 5,511,316 A \* 4/1996 Fischer ..... B26D 3/24  
 33/1 F  
 5,978,230 A \* 11/1999 Dando ..... H01M 2/1044  
 174/260  
 6,216,354 B1 \* 4/2001 Carbone ..... B43L 13/20  
 33/27.01  
 D449,338 S \* 10/2001 Lariviere, Jr. .... D10/64  
 6,460,267 B1 \* 10/2002 Cormack ..... B43L 13/20  
 33/565  
 D505,416 S \* 5/2005 Ma ..... D14/230  
 D519,562 S \* 4/2006 Phillips ..... D19/39  
 7,150,108 B2 \* 12/2006 Babb ..... A61B 5/1076  
 33/563  
 D544,495 S \* 6/2007 Evans ..... D14/488  
 D546,819 S \* 7/2007 Oliver ..... D14/230  
 D546,820 S \* 7/2007 Oliver ..... D14/230  
 D546,821 S \* 7/2007 Oliver ..... D14/230  
 D549,721 S \* 8/2007 Ito ..... D14/488  
 D558,191 S \* 12/2007 Pempsell ..... D14/233  
 D611,037 S \* 3/2010 Oliver ..... D14/230  
 7,889,151 B1 \* 2/2011 Brock ..... H01Q 9/27  
 343/700 MS  
 D715,857 S \* 10/2014 Brindzik ..... D19/40  
 D739,872 S \* 9/2015 Bang ..... D14/488  
 D760,283 S \* 6/2016 Horiuchi ..... D14/489

D761,812 S \* 7/2016 Motamedi ..... D14/485  
 D762,706 S \* 8/2016 Murillo ..... D14/488  
 D763,288 S \* 8/2016 Mistry ..... D14/486  
 D768,771 S \* 10/2016 Lipscomb ..... D19/39  
 D806,116 S \* 12/2017 Springer ..... D14/489  
 10,015,879 B2 \* 7/2018 Hawtof ..... H01Q 1/12  
 10,141,637 B2 \* 11/2018 Asakawa ..... H01Q 1/48  
 D841,607 S \* 2/2019 Sunagawa ..... D13/182  
 D849,792 S \* 5/2019 Lee ..... D14/492  
 D857,672 S \* 8/2019 Zhao ..... D14/230  
 2001/0014377 A1 \* 8/2001 Babb ..... B60C 23/0493  
 428/40.1  
 2003/0001790 A1 \* 1/2003 Louzir ..... H01Q 1/38  
 343/767  
 2004/0056822 A1 \* 3/2004 McCarthy ..... H01Q 1/38  
 343/895  
 2005/0168397 A1 \* 8/2005 Kaluzni ..... H01Q 1/38  
 343/795  
 2005/0252019 A1 \* 11/2005 Gordon ..... B43L 13/20  
 33/566  
 2012/0186073 A1 \* 7/2012 Feller ..... H01Q 1/38  
 29/600

OTHER PUBLICATIONS

Drawing tools, Daube website post 2012, <https://www.daube.ch/docu/glossary/drawingtools.html>, site visited Sep. 28, 2019 (Year: 2012).\*

Round Circle Great Circular Arc Drawing Template, Daraz website 2019. <https://www.daraz.pk/products/round-circle-great-circular-arc-drawing-template-kt-soft-pl> . . . site visited Sep. 28, 2019 (Year: 2019).\*

\* cited by examiner

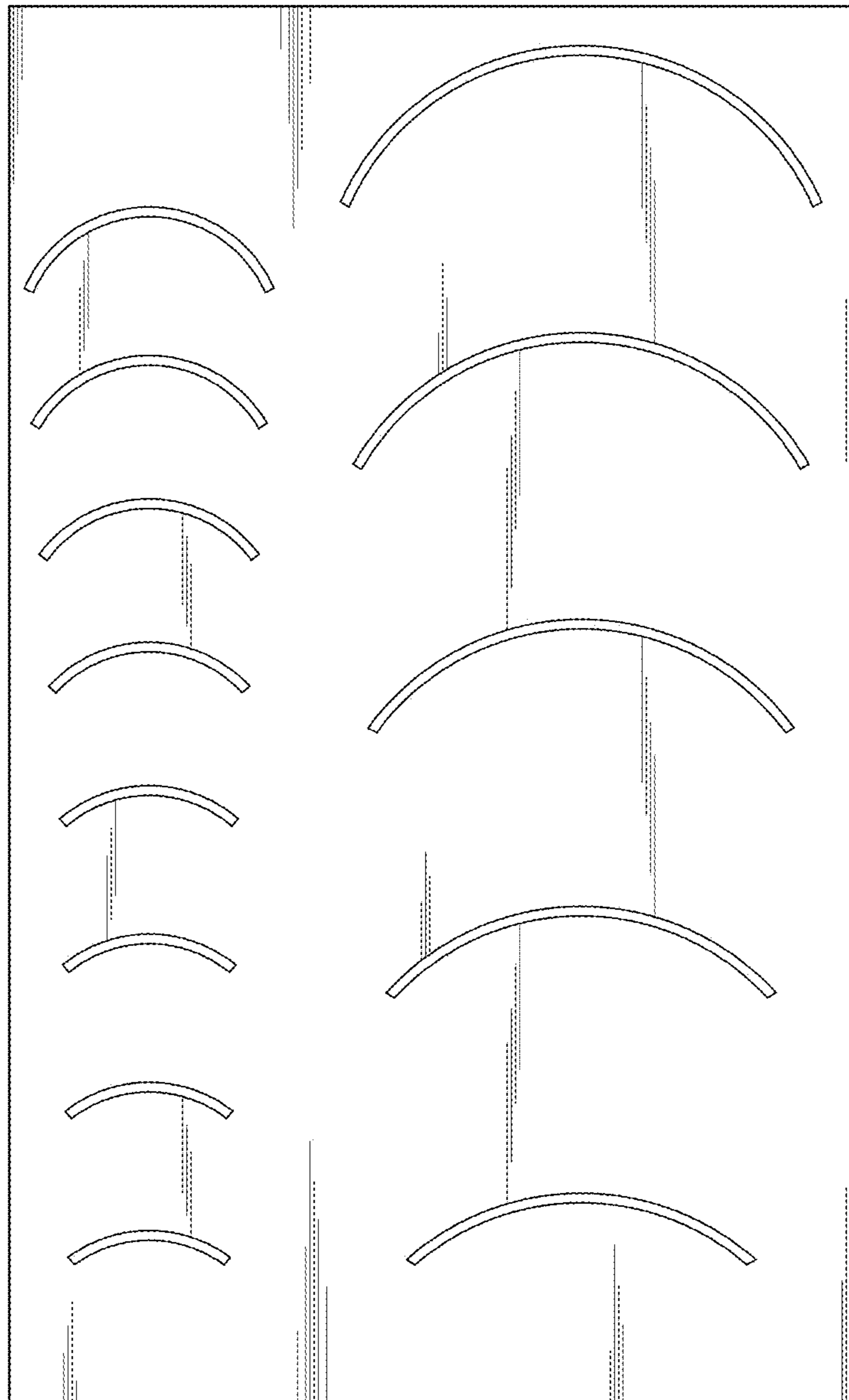


FIG. 1

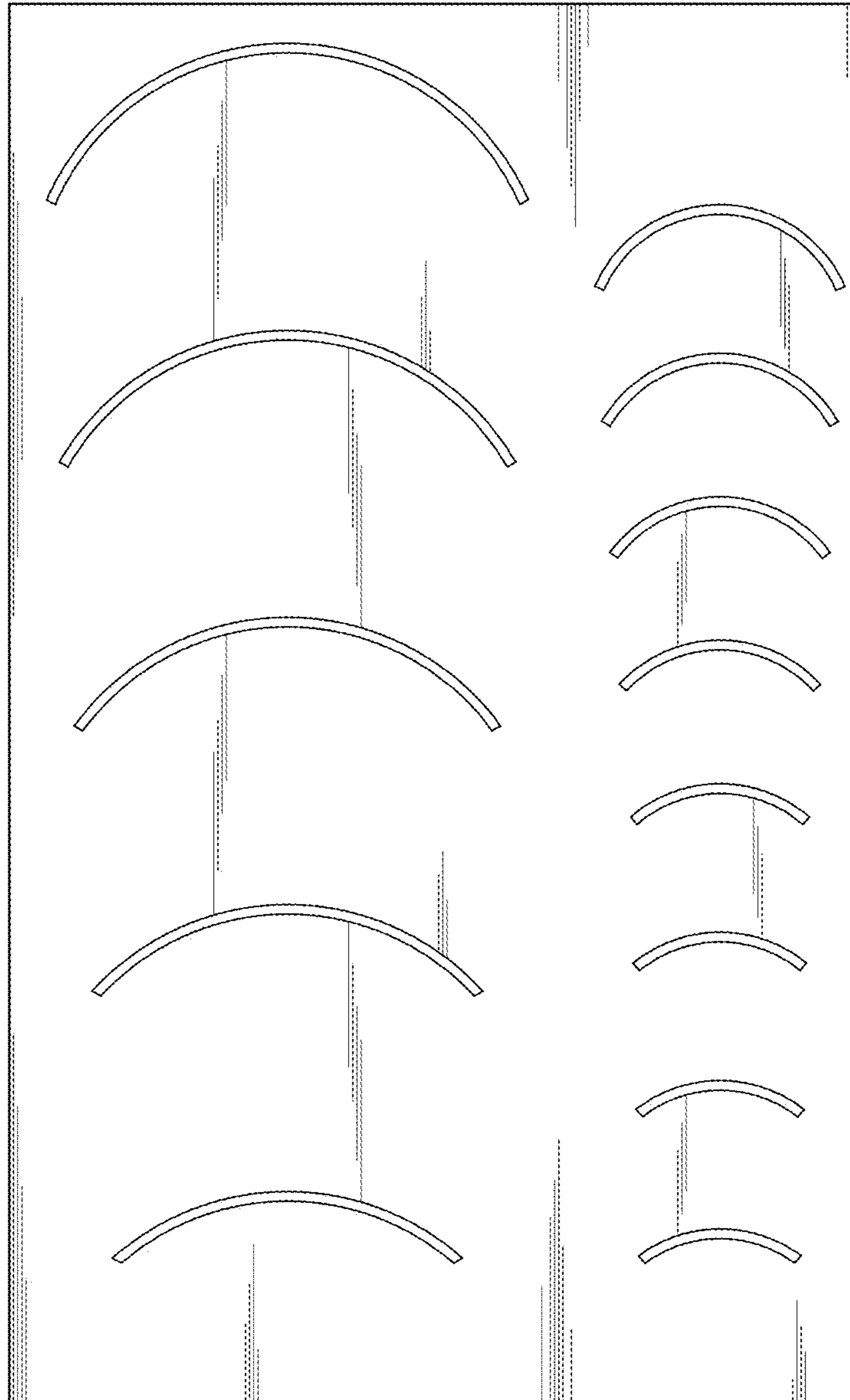


FIG. 2