



US00D775110S

(12) **United States Design Patent** (10) **Patent No.:** **US D775,110 S**
Tsen (45) **Date of Patent:** **** Dec. 27, 2016**

(54) **ANTENNA PIPE**
(71) Applicant: **Mei-Lin Tsen**, Zhubei (TW)
(72) Inventor: **Mei-Lin Tsen**, Zhubei (TW)
(73) Assignee: **WHA YU INDUSTRIAL CO., LTD.**,
Hsinchu (TW)

5,970,653 A * 10/1999 Liang A01G 13/0243
47/30
D447,250 S * 8/2001 Dionne D25/126
D447,822 S * 9/2001 Dionne D25/126
D517,055 S * 3/2006 Hung D14/230
D525,967 S * 8/2006 Hsiau D14/230
D558,190 S * 12/2007 Cislo D14/230
D595,700 S * 7/2009 Cook D14/234
D616,116 S * 5/2010 Keel D25/126

(Continued)

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

(21) Appl. No.: **29/527,311**

(22) Filed: **May 18, 2015**

(51) **LOC (10) Cl.** **14-03**

(52) **U.S. Cl.**
USPC **D14/230**

(58) **Field of Classification Search**
USPC D14/230, 234, 238; D8/82, 83, 85, 86,
D8/47, 376, 388; D21/400, 402, 403,
D21/503-505, 782; D24/108, 111, 113,
D24/133; D3/273; D12/412, 406,
D12/408-410; D6/513-514, 552-553,
D6/559, 567; D26/27, 37, 93; D25/35,
D25/41.1, 43, 126, 128-129, 119
CPC B06H 1/00357; B06H 1/00207; B06H
1/00514; B06H 1/00014; F24F 2221/16;
H01Q 1/12; H01Q 1/00; H01Q
1/007; H01Q 1/084; H01Q 1/088; H01Q
1/10; H01Q 7/00; H01Q 13/10; H01Q
9/285; H01Q 19/30; H01Q 19/12; H01Q
1/38; H04B 1/0475; H04B 1/034; H04B
13/00; H04B 14/00; H05K 11/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D211,028 S * 5/1968 Zucconi D14/230
D236,062 S * 7/1975 Winston D6/601
D287,588 S * 1/1987 Ulch D14/231
D293,672 S * 1/1988 Redaelli D14/230
D350,310 S * 9/1994 Willis 428/28
D357,683 S * 4/1995 Cline D14/234

OTHER PUBLICATIONS

“Matematica cinco,” [online], posted Oct. 9, 2010, retrieved Sep. 12, 2016, retrieved from <http://matematicacinco.blogspot.com/2010_10_01_archive.html>.*

(Continued)

Primary Examiner — Karen Kearney
Assistant Examiner — Debra Callahan
(74) *Attorney, Agent, or Firm* — Egbert Law Offices,
PLLC

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view of an antenna pipe showing my new design.
FIG. 2 is a right side elevational view thereof;
FIG. 3 is a left side elevational view thereof;
FIG. 4 is a front elevation view thereof;
FIG. 5 is rear elevation view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is another perspective view of the antenna pipe.
The broken lines shown in FIG. 7 of the antenna pipe are for the purpose of illustrating environmental structure, and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D643,025	S *	8/2011	Podduturi	.....	D14/230
D688,792	S *	8/2013	Guarraia	.....	D24/113
D711,358	S *	8/2014	Jeon	.....	D14/230
D718,749	S *	12/2014	Huang	.....	D14/230
2001/0015399	A1 *	8/2001	LaMotte	.....	G09F 15/0025 248/165
2003/0107520	A1 *	6/2003	Terk	.....	H01Q 1/084 343/713
2006/0290580	A1 *	12/2006	Noro	.....	H01Q 21/28 343/715
2009/0073949	A1 *	3/2009	Malak	.....	H01Q 1/007 370/339
2009/0121957	A1 *	5/2009	Kaneko	.....	H01Q 9/285 343/795
2010/0220021	A1 *	9/2010	Khreizat	.....	H01Q 1/1214 343/715
2014/0191921	A1 *	7/2014	Yang	.....	H01Q 1/27 343/872

OTHER PUBLICATIONS

“ASUS PCE-AC68 dual-band wireless-AC1900 adapter,” [online], posted Dec. 27, 2013, retrieved Sep. 12, 2016, retrieved from <ASUS PCE-AC68 Dual-band Wireless-AC1900 Adapter IEEE 802.11ac, IEEE 802.11a/b/g/n. PCI Express Up to 600 and 1300Mbps Wireless Data Rates—Newegg.com>.*

“Mathlino.com,” [online], posted Apr. 21, 2010, retrieved Sep. 15, 2016, retrieved from <<http://web.archive.org/web/20100421060659/http://www.mathalino.com/reviewer/solid-mensuration/prism>>.*

“Universo formulas,” [online], posted Jun. 13, 2014, retrieved Sep. 15, 2016, retrieved from <<http://web.archive.org/web/20140613173649/http://www.universoformulas.com/matematicas/geometria/prisma-pentagonal/>>.*

“Frustum of a pentagonal pyramid,” [online], posted Mar. 7, 2009, retrieved Sep. 15, 2016, retrieved from <http://web.archive.org/web/20090307005240/http://etc.usf.edu/clipart/42800/42821/frust-pent7_42821.htm>.*

* cited by examiner

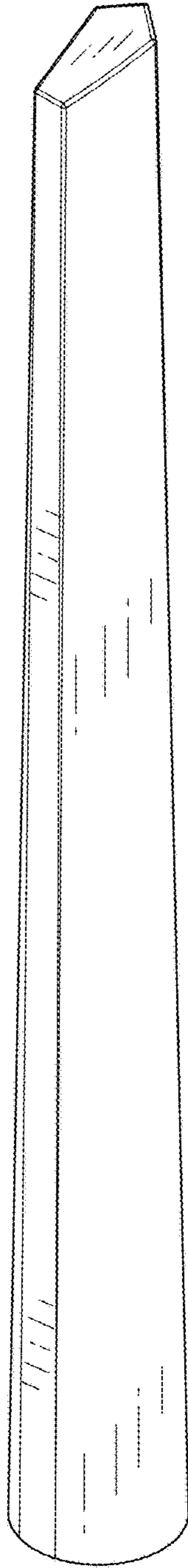


FIG.1

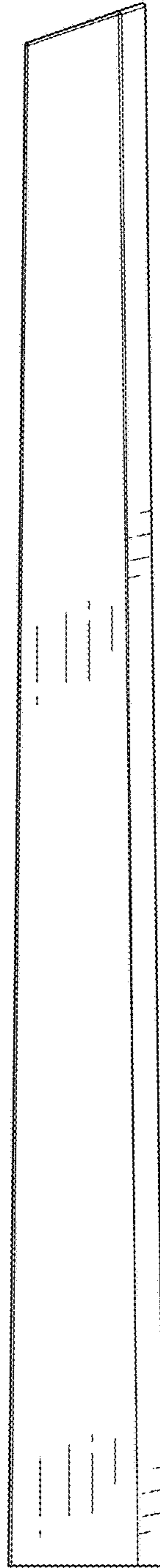


FIG.2

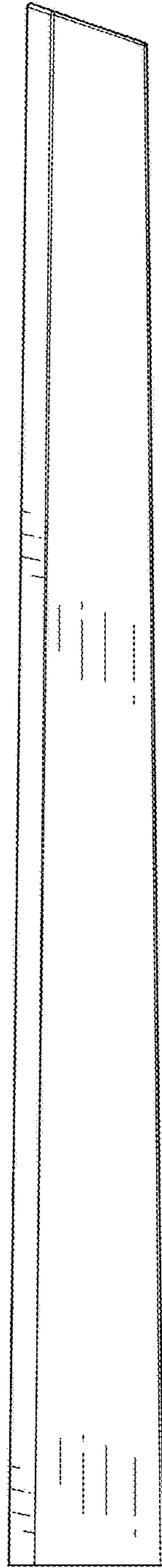


FIG.3

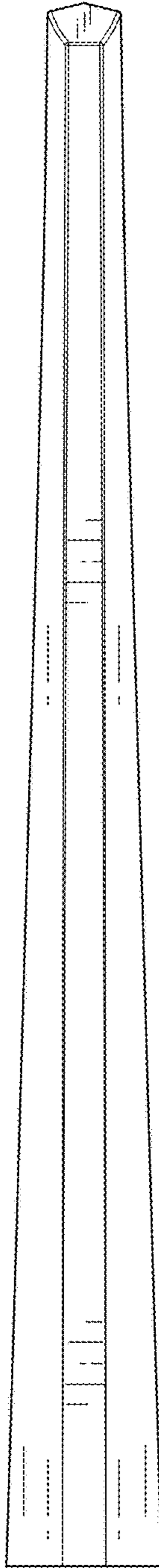


FIG. 4

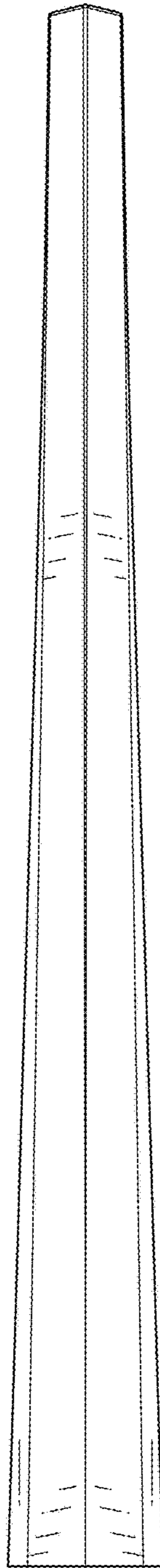


FIG.5

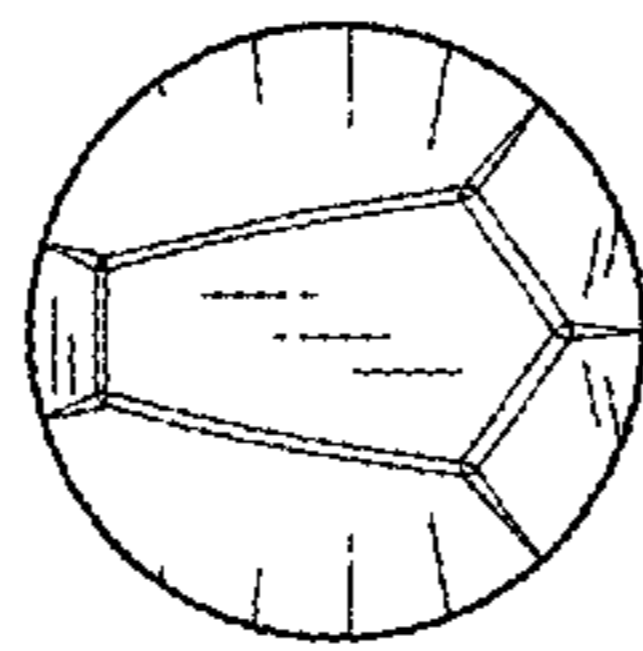


FIG.6

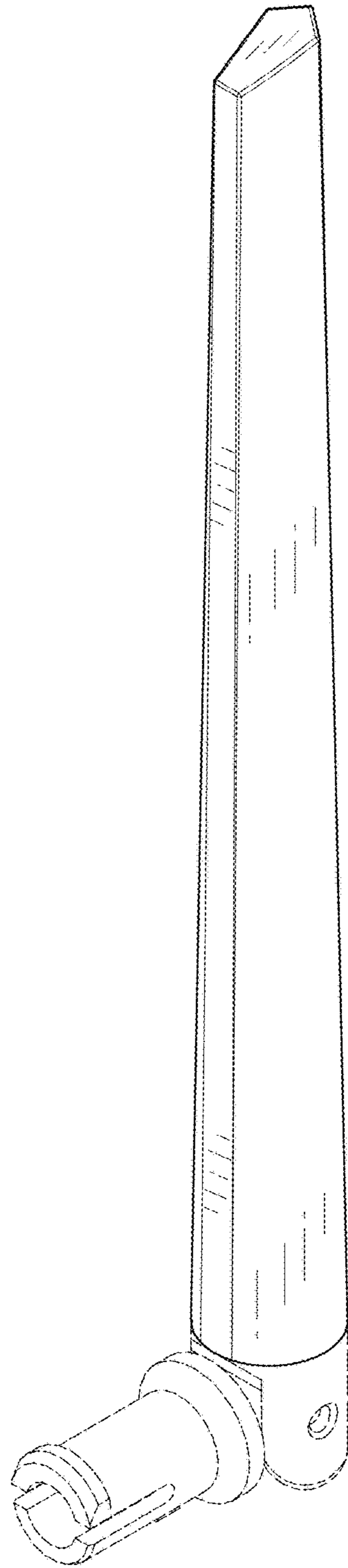


FIG. 7