



US00D671097S

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

(10) **Patent No.:** **US D671,097 S**

(45) **Date of Patent:** **** Nov. 20, 2012**

(54) **MULTI-BAND ANTENNA**

(75) Inventors: **Shih-Yuan Mi**, New Taipei (TW); **Yi-Ru Yang**, New Taipei (TW); **Jia-Hung Su**, New Taipei (TW); **Kai Shih**, New Taipei (TW)

(73) Assignee: **Cheng Uei Precision Industry Co., Ltd.**, New Taipei (TW)

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

(21) Appl. No.: **29/409,317**

(22) Filed: **Dec. 21, 2011**

(51) **LOC (9) Cl.** **14-03**

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

(58) **Field of Classification Search** D14/138, D14/230-238, 299, 358; D12/42, 43; 343/700 MS, 343/700 R-705, 711-713, 735, 736, 741, 343/748, 767, 795, 819, 840, 846, 866, 871-908; 455/90.2, 90.3, 91, 128, 269, 344, 347, 562.1
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,791,500	B2 *	9/2004	Qi et al.	343/702
7,333,067	B2 *	2/2008	Hung et al.	343/770
7,405,704	B1 *	7/2008	Lin et al.	343/702
D589,035	S *	3/2009	Hellgren	D14/230
7,570,215	B2 *	8/2009	Abramov et al.	343/700 MS
D621,819	S *	8/2010	Tsai et al.	D14/230
D633,483	S *	3/2011	Su et al.	D14/230
D633,900	S *	3/2011	Tsai et al.	D14/230

8,018,386	B2 *	9/2011	Qi et al.	343/702
D650,370	S *	12/2011	Huang et al.	D14/230
D654,058	S *	2/2012	Mi et al.	D14/230
D654,060	S *	2/2012	Ko et al.	D14/230
D664,128	S *	7/2012	Huang et al.	D14/230
2005/0017906	A1 *	1/2005	Man et al.	343/700 MS
2007/0030203	A1 *	2/2007	Tsai et al.	343/702
2008/0246668	A1 *	10/2008	Qi et al.	343/702
2008/0266202	A1 *	10/2008	Lin et al.	343/893
2009/0027275	A1 *	1/2009	Su et al.	343/700 MS
2010/0079350	A1 *	4/2010	Lai et al.	343/843
2010/0123628	A1 *	5/2010	Su et al.	343/700 MS
2010/0134358	A1 *	6/2010	Su et al.	343/700 MS
2011/0084882	A1 *	4/2011	Tsai et al.	343/700 MS
2012/0032856	A1 *	2/2012	Huang et al.	343/700 MS

* cited by examiner

Primary Examiner — John Windmuller

(74) *Attorney, Agent, or Firm* — Cheng-Ju Chiang

(57) **CLAIM**

The ornamental design for a multi-band antenna, as shown and described.

DESCRIPTION

The FIGURE is a front elevational view of a multi-band antenna showing our new design.

The design is so thin that it is barely discernable in top, bottom, and side views. All elements of the design are flat and coplanar. The contiguous shaded area is the only area that is claimed.

The broken line portion of the FIGURE is included to show unclaimed subject matter only and forms no part of the claimed design.

1 Claim, 1 Drawing Sheet



