



US00D654058S

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

(10) **Patent No.:** **US D654,058 S**

(45) **Date of Patent:** **\*\* Feb. 14, 2012**

(54) **MULTI-BAND ANTENNA**

(75) Inventors: **Shih-Yuan Mi**, 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.: **29/401,334**

(22) Filed: **Sep. 9, 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**

7,148,849	B2 *	12/2006	Lin	.....	343/700 MS
D534,527	S *	1/2007	Hung et al.	.....	D14/230
D534,903	S *	1/2007	Hung et al.	.....	D14/230
D554,111	S *	10/2007	Su et al.	.....	D14/230
D572,243	S *	7/2008	Lin et al.	.....	D14/230
7,405,704	B1 *	7/2008	Lin et al.	.....	343/702
D603,850	S *	11/2009	Wu et al.	.....	D14/230
D608,354	S *	1/2010	Yang et al.	.....	D14/230

7,642,967	B2 *	1/2010	Wang et al.	.....	343/702
7,843,390	B2 *	11/2010	Liu	.....	343/700 MS
D635,128	S *	3/2011	Huang et al.	.....	D14/230
D635,963	S *	4/2011	Podduturi	.....	D14/230
D635,964	S *	4/2011	Podduturi	.....	D14/230
2005/0017906	A1 *	1/2005	Man et al.	.....	343/700 MS
2008/0246668	A1 *	10/2008	Qi et al.	.....	343/702
2008/0266202	A1 *	10/2008	Lin et al.	.....	343/893
2009/0002244	A1 *	1/2009	Woo	.....	343/702
2009/0027275	A1 *	1/2009	Su et al.	.....	343/700 MS
2009/0231199	A1 *	9/2009	Vance	.....	343/700 MS
2010/0013715	A1 *	1/2010	Yu et al.	.....	343/700 MS
2010/0134358	A1 *	6/2010	Su et al.	.....	343/700 MS
2010/0188297	A1 *	7/2010	Chen et al.	.....	343/702

\* cited by examiner

*Primary Examiner* — John Windmuller

(57) **CLAIM**

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

**DESCRIPTION**

The FIGURE is a front elevation 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**



