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Tseng et al.

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(54) **MULTI-BAND ANTENNA**

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

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

7,477,195 B2 * 1/2009 Vance 343/700 MS
D603,850 S * 11/2009 Wu et al. D14/230
D633,483 S * 3/2011 Su et al. D14/230

D635,127 S * 3/2011 Tsai et al. D14/230
D635,560 S * 4/2011 Tsai et al. D14/230
D635,963 S * 4/2011 Poddaturi D14/230
2005/0062655 A1 * 3/2005 Suganthan et al. 343/702
2005/0264447 A1 * 12/2005 Shan 343/700 MS
2008/0136711 A1 * 6/2008 Lai et al. 343/700 MS
2008/0150829 A1 * 6/2008 Lin et al. 343/860
2010/0123628 A1 * 5/2010 Su et al. 343/700 MS
2011/0001681 A1 * 1/2011 Hsu 343/860

* cited by examiner

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(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 with each other. 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



