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SET OF WAVEGUIDE ASSISTED ANTENNA ELEMENTS FOR RFID TAGS

(75)

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(73)

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(**)

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Field of Classification Search

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See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

6,778,037 B1 * 8/2004 Salmela et al. 333/109

6,828,939 B2 * 12/2004 Li 343/700 MS

6,859,177 B2 * 2/2005 Pozdeev 343/700 MS

6,861,991 B2 * 3/2005 Mueller et al. 343/713

7,053,856 B2 * 5/2006 O'Sullivan 343/866

7,230,575 B2 * 6/2007 Jeong 343/702

7,237,318 B2 * 7/2007 Annamaa et al. 29/600

7,248,227 B2 * 7/2007 Chen 343/795

7,443,810 B2 * 10/2008 Boyle 370/281

7,505,000 B2 * 3/2009 Hockey et al. 343/700 MS

7,505,002 B2 * 3/2009 Surittikul et al. 343/700 MS

7,515,116 B2 * 4/2009 Oberle 343/895

7,541,984 B2 * 6/2009 Peng et al. 343/700 MS

7,557,760 B2 * 7/2009 Chang et al. 343/702

* cited by examiner

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(57)

CLAIM

The ornamental design for a set of waveguide assisted antenna elements for RFID tags, as shown and described.

DESCRIPTION

The sole FIGURE is a top plan view of a set of waveguide assisted antenna elements for RFID tags showing my new design.

The small white square on the right side of the set represents an RFID chip which illustrates environment only and forms no part of the claimed design. The solid black areas constitute the entirety of the claimed design.

1 Claim, 1 Drawing Sheet



