



US00D802563S

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

(10) **Patent No.: US D802,563 S**

(45) **Date of Patent: \*\* \*Nov. 14, 2017**

(54) **RADIO FREQUENCY IDENTIFICATION ANTENNA**

(71) Applicant: **VORBECK MATERIALS CORP.**,  
Jessup, MD (US)

(72) Inventors: **Sriram Manivannan**, Baltimore, MD (US); **Mathew A Hudspeth**,  
Cantonsville, MD (US); **Jeremy D Smith**, Annapolis, MD (US); **Larry Hurzon**,  
Alexandria, VA (US)

(73) Assignee: **VORBECK MATERIALS CORP.**,  
Jessup, MD (US)

(\*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/500,123**

(22) Filed: **Aug. 21, 2014**

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

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

(58) **Field of Classification Search**  
USPC .... D14/230-238, 299, 358; 343/700 R, 733,  
343/747-748, 753, 779, 781 CA,  
343/793-794, 801, 803, 806, 811,  
343/841-842, 846, 878-882  
CPC ..... H01Q 7/00; H01Q 13/10; H01Q 9/285;  
H01Q 19/30; H01Q 19/12; H01Q 1/38;  
H04B 1/0475; H04B 1/034; H05K 11/00  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

609,154 A \* 8/1898 Lodge ..... H03B 11/02  
178/116  
1,855,184 A \* 4/1932 Fisher ..... H01Q 21/06  
343/748

D491,557 S \* 6/2004 Iwai ..... D14/230  
7,277,060 B2 \* 10/2007 Fukuchi ..... H01Q 13/10  
343/767  
7,324,061 B1 \* 1/2008 Hadley ..... G06K 19/07749  
340/572.7  
7,542,008 B2 \* 6/2009 Hadley ..... G06K 19/07749  
340/572.7  
7,545,328 B2 \* 6/2009 Son ..... H01Q 1/22  
343/700 MS  
7,692,599 B2 \* 4/2010 Wong ..... H01Q 9/285  
343/700 MS  
D652,409 S \* 1/2012 Hernandez ..... D14/230  
D652,410 S \* 1/2012 Hernandez ..... D14/230

(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 302902182 \* 8/2014  
CN 303377572 \* 9/2015  
EM 002707216-0001 \* 6/2015

**OTHER PUBLICATIONS**

RFID News Roundup—RFID Journal, website copyright 2015,  
online, <http://www.rfidjournal.com/articles/view?12631/5>, [site visited Nov. 11, 2015 5:23:59 PM].\*

(Continued)

*Primary Examiner* — John Windmuller

*Assistant Examiner* — John R Yeh

(74) *Attorney, Agent, or Firm* — Vorbeck Materials Corp.;  
Trentice V. Bolar

(57) **CLAIM**

The ornamental design for a radio frequency identification antenna, as shown.

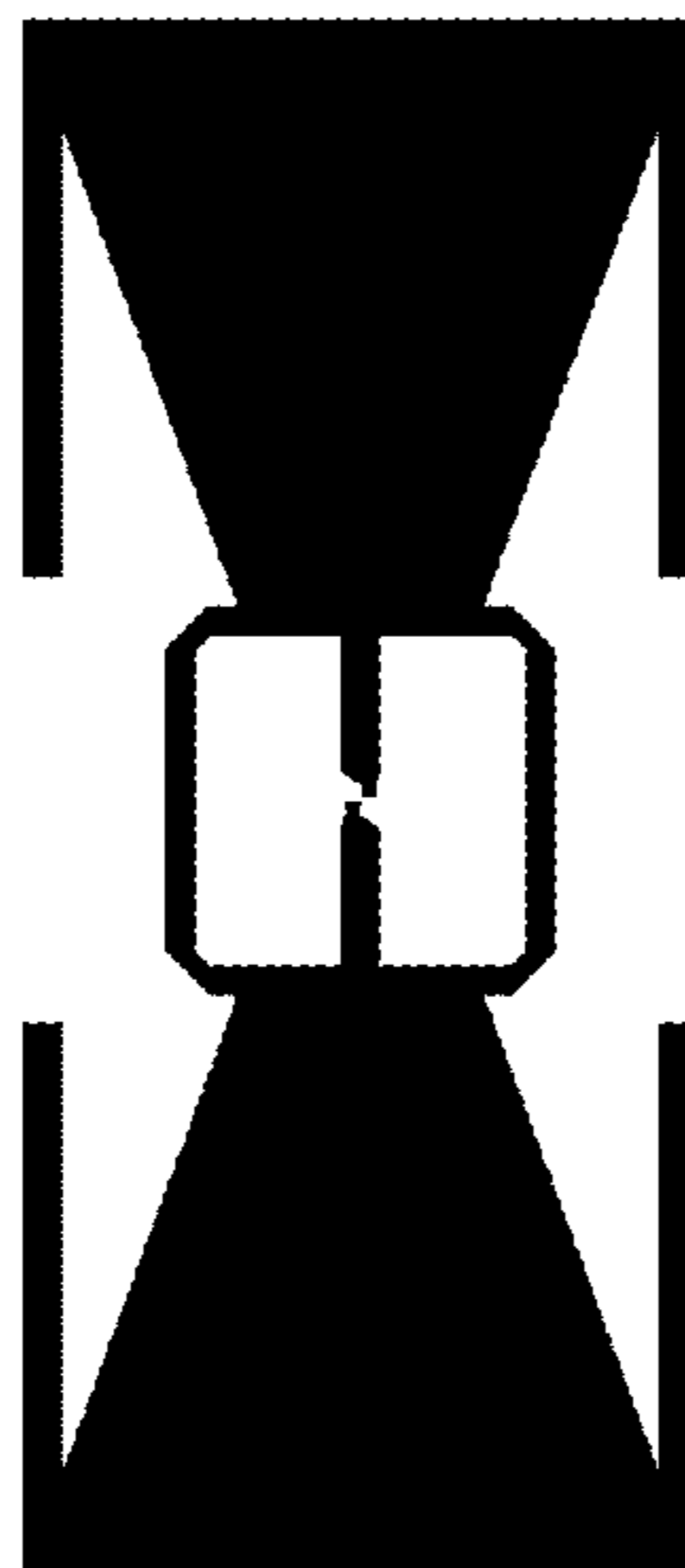
**DESCRIPTION**

The FIGURE is a top view of a radio frequency identification antenna of the new design.

All claimed features are flat and coplanar.

Only the solid black areas are claimed.

**1 Claim, 1 Drawing Sheet**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

8,378,912 B2 \* 2/2013 Nishino ..... H01Q 1/3241  
343/788  
2004/0222936 A1 \* 11/2004 Hung ..... H01Q 1/38  
343/795  
2005/0184919 A1 \* 8/2005 Yekeh Yazdandoost .....  
H01Q 9/285  
343/767  
2006/0055542 A1 \* 3/2006 Forster ..... G06K 19/07749  
340/572.7  
2010/0134292 A1 \* 6/2010 Deavours ..... H01Q 1/38  
340/572.7  
2015/0097748 A1 \* 4/2015 Hao ..... H01Q 1/38  
343/797

OTHER PUBLICATIONS

Mikron UHF RFID inlays for supply chain and retail, website  
copyright 2011, online, [http://www.veryfields.net/mikron-uhf-rfid-  
inlays-for-supply-chain-and-retail](http://www.veryfields.net/mikron-uhf-rfid-inlays-for-supply-chain-and-retail), [site visited Nov. 28, 2015  
8:07:44 PM].\*

\* cited by examiner

