



US008738103C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (12855th)

United States Patent

Baliarda et al.

(10) **Number:** **US 8,738,103 C1**

(45) **Certificate Issued:** **Feb. 28, 2025**

(54) **MULTIPLE-BODY-CONFIGURATION
MULTIMEDIA AND SMARTPHONE
MULTIFUNCTION WIRELESS DEVICES**

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H01Q 5/40 (2015.01)

H01Q 9/04 (2006.01)

(52) **U.S. Cl.**

CPC *H01Q 1/243* (2013.01); *H01Q 1/36* (2013.01); *H01Q 5/371* (2015.01); *H01Q 5/40* (2015.01); *H01Q 9/0407* (2013.01); *H01Q 9/0421* (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

Reexamination Request:

No. 90/019,500, Apr. 30, 2024

Reexamination Certificate for:

Patent No.: **8,738,103**

Issued: **May 27, 2014**

Appl. No.: **11/614,429**

Filed: **Dec. 21, 2006**

Certificate of Correction issued Jun. 14, 2022

Related U.S. Application Data

(60) Provisional application No. 60/856,410, filed on Nov. 3, 2006, provisional application No. 60/831,544, filed on Jul. 18, 2006.

(51) **Int. Cl.**

H04M 1/00 (2006.01)

H01Q 1/24 (2006.01)

H01Q 1/36 (2006.01)

H01Q 5/371 (2015.01)

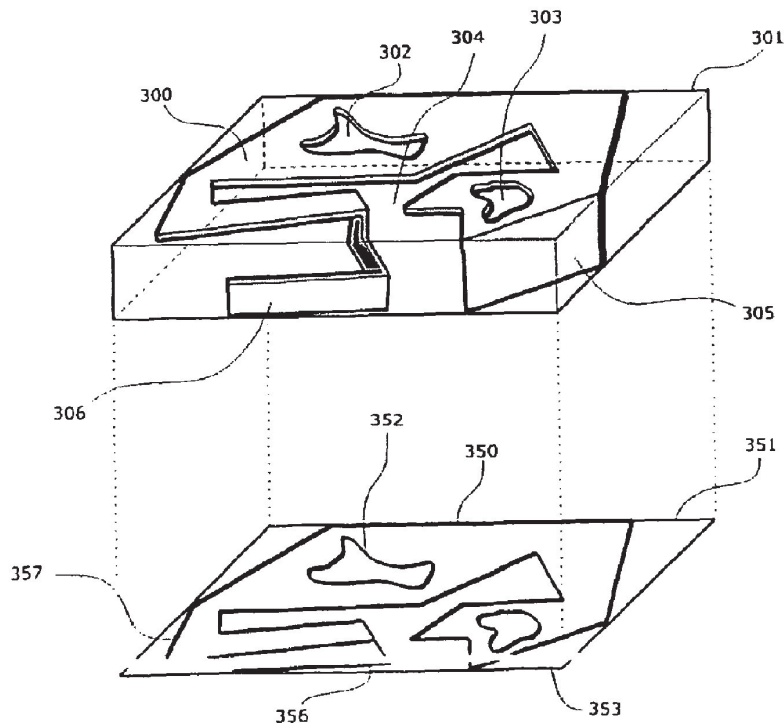
(56) **References Cited**

To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 90/019,500, please refer to the USPTO's Patent Electronic System.

Primary Examiner — Colin M LaRose

(57) **ABSTRACT**

A multifunction wireless device having at least one of multimedia functionality and smartphone functionality, the multifunction wireless device including an upper body and a lower body, the upper body and the lower body being adapted to move relative to each other in at least one of a clamshell, a slide, and a twist manner. The multifunction wireless device further includes an antenna system disposed within at least one of the upper body and the lower body and having a shape with a level of complexity of an antenna contour defined by complexity factors F21 having a value of at least 1.05 and not greater than 1.80 and F32 having a value of at least 1.10 and not greater than 1.90.



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EX PARTE
REEXAMINATION CERTIFICATE

THE PATENT IS HEREBY AMENDED AS 5
INDICATED BELOW.

AS A RESULT OF REEXAMINATION, IT HAS BEEN
DETERMINED THAT:

Claims **12** and **15** are cancelled. 10

Claims **1-11**, **13**, **14** and **16-20** were not reexamined.

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