

Title (en)
PANEL ANTENNA HAVING SEALED RADIO ENCLOSURE

Title (de)
PANELANTEILLE MIT VERSIEGELTEM FUNKGEHÄUSE

Title (fr)
ANTENNE PLATE À ENCEINTE RADIO SCELLÉE

Publication
EP 2364518 B1 20160309 (EN)

Application
EP 09831021 A 20091202

Priority
• US 2009066345 W 20091202
• US 11911408 P 20081202

Abstract (en)
[origin: WO2010065593A2] A panel antenna is provided, including an enclosure, an inner seal, a plurality of micro radios and RF modules, and a radome. The enclosure may include a rectangular rear panel, and, extending in a longitudinal direction of the enclosure, first walls extending from at least the longitudinal edges of the rear panel, second walls extending from the first walls and being angled inwardly, third walls extending from the second walls, and flange extending from the third wall portion outwardly from the cavity of the enclosure, the flange being substantially parallel with the rear panel, the flange having a mounting locations and a sealing area located between the mounting locations and the third wall portion, such that a combination of the walls and flange appear generally "Z"-shaped in cross section. The inner seal may be dimensioned to overlap an area defined by the flange of the enclosure such that the inner seal forms an environmental seal when positioned on the sealing area of the flange. The inner seal may also have a plurality of RF radiating modules fastened thereto. The inner seal may also provide electromagnetic shielding. The plurality of micro radios are located inside the cavity of the enclosure, and each micro radio is coupled to an RF radiating module.

IPC 8 full level
H01Q 21/12 (2006.01); **G01S 13/00** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/42** (2006.01); **H01Q 9/04** (2006.01); **H01Q 19/10** (2006.01); **H01Q 21/06** (2006.01); **H04M 1/00** (2006.01)

CPC (source: EP US)
H01Q 1/246 (2013.01 - EP); **H01Q 1/42** (2013.01 - EP); **H01Q 9/0407** (2013.01 - EP); **H01Q 19/10** (2013.01 - EP); **H01Q 21/06** (2013.01 - EP); **H01Q 21/12** (2013.01 - EP US)

Cited by
EP2507867A4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010065593 A2 20100610; WO 2010065593 A3 20100819; BR PI0922725 A2 20170711; CN 102369635 A 20120307; CN 102369635 B 20131106; EP 2364518 A2 20110914; EP 2364518 A4 20120815; EP 2364518 B1 20160309

DOCDB simple family (application)
US 2009066345 W 20091202; BR PI0922725 A 20091202; CN 200980153941 A 20091202; EP 09831021 A 20091202