

Title (en)  
INTEGRATED ANTENNA UNIT WITH BLIND MATE INTERCONNECT

Title (de)  
INTEGRIERTE ANTENNENEINHEIT MIT BLIND-MATE-VERBINDUNG

Title (fr)  
UNITÉ D'ANTENNE INTÉGRÉE AVEC INTERCONNEXION PAR ACCOUPLEMENT AVEUGLE

Publication  
**EP 3201987 A4 20180509 (EN)**

Application  
**EP 15847534 A 20151001**

Priority  
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• US 2015053519 W 20151001

Abstract (en)  
[origin: WO2016054392A1] An antenna unit that includes an antenna, at least one radio unit, and an interconnect that includes first and second mating connectors. The first connector is configured to be electrically and mechanically coupled to the antenna and the second connector is configured to be electrically and mechanically coupled to the at least one radio unit. The first connector has lead-in geometry, and radial and axial float for blind mating of the first and second mating connectors.

IPC 8 full level  
**H01Q 1/12** (2006.01); **H01Q 1/24** (2006.01); **H01Q 3/08** (2006.01); **H01R 13/631** (2006.01); **H01R 24/52** (2011.01)

CPC (source: CN EP)  
**H01Q 1/1228** (2013.01 - CN EP); **H01Q 1/246** (2013.01 - CN EP); **H01Q 3/08** (2013.01 - CN EP); **H01R 13/6315** (2013.01 - CN EP); **H01R 24/52** (2013.01 - CN EP)

Citation (search report)  
• [XYI] US 2014179244 A1 20140626 - COLAPIETRO JULIAN R [US], et al  
• [Y] US 2008139028 A1 20080612 - BURRIS DONALD ANDREW [US], et al  
• [Y] US 6344736 B1 20020205 - KERRIGAN JAMES J [US], et al  
• [XP] US 2014315408 A1 20141023 - COLAPIETRO JULIAN R [US], et al  
• [A] US 4030797 A 19770621 - NIEMAN GERALD R  
• See references of WO 2016054392A1

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

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**WO 2016054392 A1 20160407**; CN 107078373 A 20170818; EP 3201987 A1 20170809; EP 3201987 A4 20180509

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**US 2015053519 W 20151001**; CN 201580059540 A 20151001; EP 15847534 A 20151001