

Title (en)  
ANTENNA COIL

Title (de)  
ANTENNENSPULE

Title (fr)  
BOBINE D'ANTENNE

Publication  
**EP 2966655 B1 20191023 (EN)**

Application  
**EP 15180569 A 20110211**

Priority  
• JP 2010030710 A 20100215  
• EP 11154180 A 20110211

Abstract (en)  
[origin: EP2360704A1] In an antenna coil which includes a core member having an X-axis leg section protruding in the X-axis direction from an intersection of the core member and having a Y-axis leg section protruding in the Y-axis direction from the intersection, X-axis winding wires wound around the outer periphery of the X-axis leg section, and Y-axis winding wires wound around the outer periphery of the Y-axis leg section, at least one of an X-axis winding frame section for the X-axis winding wire, the X-axis winding frame section being provided at the X-axis leg section, and a Y-axis winding frame section for the Y-axis winding wire, the Y-axis winding frame section being provided at the Y-axis leg section, has one of intermediate flange sections for respectively separating the X-axis winding frame section and the Y-axis winding frame section into a pair of winding frame sections and a pair of winding frame sections, the winding frame sections of each of the pairs corresponding to different winding shapes.

IPC 8 full level  
**H01F 3/00** (2006.01); **G07C 9/00** (2006.01); **H01F 3/10** (2006.01); **H01F 5/00** (2006.01); **H01F 5/02** (2006.01); **H01F 17/04** (2006.01); **H01F 27/30** (2006.01); **H01Q 1/32** (2006.01); **H01Q 7/00** (2006.01); **H01Q 7/06** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP)  
**G07C 9/00944** (2013.01); **H01F 3/10** (2013.01); **H01F 5/02** (2013.01); **H01F 17/04** (2013.01); **H01F 27/306** (2013.01); **H01Q 1/3241** (2013.01); **H01Q 7/00** (2013.01); **H01Q 21/24** (2013.01); **H01F 2003/005** (2013.01)

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

DOCDB simple family (publication)  
**EP 2360704 A1 20110824**; **EP 2360704 B1 20150923**; CN 102195137 A 20110921; CN 102195137 B 20160831; CN 104051854 A 20140917; CN 104051854 B 20160713; DE 15180569 T1 20160512; EP 2966655 A2 20160113; EP 2966655 A3 20160413; EP 2966655 B1 20191023; JP 2011166707 A 20110825; JP 5161901 B2 20130313

DOCDB simple family (application)  
**EP 11154180 A 20110211**; CN 201110038395 A 20110214; CN 201410258011 A 20110214; DE 15180569 T 20110211; EP 15180569 A 20110211; JP 2010030710 A 20100215