

Title (en)  
A DUAL POLARIZED ANTENNA

Title (de)  
DOPPELT POLARISIERTE ANTENNE

Title (fr)  
ANTENNE À DOUBLE POLARISATION

Publication  
**EP 3280006 A1 20180207 (EN)**

Application  
**EP 16182533 A 20160803**

Priority  
EP 16182533 A 20160803

Abstract (en)  
A dual polarized antenna comprises the radiating arrangement and a feeding element containing two coaxial cables and two supporting conductors forming two perpendicular baluns supporting the radiating arrangement above a ground plate. The radiating arrangement comprises four crossed dipoles feeding by four symmetrical lines from the center of the radiating arrangement. Adjacent conductors of symmetrical lines connected together at the center of the radiating arrangement. Top ends of outer conductors of coaxial cables and top ends of supporting conductors are connected to adjacent conductors of symmetrical lines at the center of the radiating arrangement. Bottom ends of outer conductors of coaxial cables and bottom ends of supporting conductors are connected to a base plate. Length of supporting conductors is less than 0.15 wave length corresponding to the middle operating frequency. Inner conductors of coaxial cables are connected to supporting conductors by bridges placed above radiating arrangement.

IPC 8 full level  
**H01Q 9/26** (2006.01); **H01Q 21/26** (2006.01)

CPC (source: EP)  
**H01Q 9/0414** (2013.01); **H01Q 9/26** (2013.01); **H01Q 9/285** (2013.01); **H01Q 21/26** (2013.01)

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