

Title (en)
Antenna with electroactive polymer

Title (de)
Antenne mit elektroaktivem Polymer

Title (fr)
Antenne avec polymère électroactif

Publication
EP 2555322 A3 20130508 (DE)

Application
EP 12005205 A 20120714

Priority
DE 102011109062 A 20110730

Abstract (en)
[origin: EP2555322A2] The antenna has an inner electrical conductor and an outer electrical conductor (13) between which a dielectric elastomer is provided. The dielectric elastomer comprises electroactive polymer (EAP) (14), silicone elastomer, or acrylate. A lead (10) is connected with inner electrical conductor that is designed as a ground reference surface (12). A feed line (9) is connected with outer electrical conductor that is designed as radiating or receiving element. The dielectric constant of electroactive polymer is 3-10.

IPC 8 full level
H01Q 1/36 (2006.01); **H01Q 9/04** (2006.01); **H01Q 11/08** (2006.01)

CPC (source: EP)
H01Q 1/362 (2013.01); **H01Q 9/0442** (2013.01); **H01Q 11/08** (2013.01)

Citation (search report)

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- [A] US 2010127953 A1 20100527 - WIK DANIEL [SE]
- [A] SHAHRZAD JALALI MAZLOUMAN ET AL: "Mechanically reconfigurable antennas using electro-active polymers (EAPs)", ANTENNAS AND PROPAGATION (APSURSI), 2011 IEEE INTERNATIONAL SYMPOSIUM ON, IEEE, 3 July 2011 (2011-07-03), pages 742 - 745, XP032191527, ISBN: 978-1-4244-9562-7, DOI: 10.1109/APS.2011.5996819

Cited by
EP2887449A1

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

Designated extension state (EPC)
BA ME

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