

Title (en)
Reconfigurable electromagnetic antenna

Title (de)
Rekonfigurierbare elektromagnetische Antenne

Title (fr)
Antenne électromagnétique reconfigurable

Publication
EP 2139066 B1 20140514 (FR)

Application
EP 09163514 A 20090623

Priority
FR 0854343 A 20080627

Abstract (en)
[origin: EP2139066A1] The antenna has a radiating element comprised of a fluid substance (F) that conducts electricity, where the volume of the fluid substance is variable. The fluid substance moves by electro-wetting on a matrix (M) of electrodes (E), where the fluid substance takes a form of one drop. A reservoir containing the fluid substance is capable of releasing or recovering a portion of the fluid substance. The portion of the fluid substance is moved from the reservoir to the electrode matrix or vice versa by electro-wetting along a channel of electrodes. An independent claim is also included for a method for manufacturing a reconfigurable electromagnetic antenna.

IPC 8 full level
H01Q 3/01 (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP US)
H01Q 1/364 (2013.01 - EP US); **H01Q 3/01** (2013.01 - EP US)

Cited by
US8730109B2; EP2169764B1

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 TR

DOCDB simple family (publication)
EP 2139066 A1 20091230; EP 2139066 B1 20140514; CN 101615714 A 20091230; CN 101615714 B 20150401; US 2009322646 A1 20091231; US 8125393 B2 20120228

DOCDB simple family (application)
EP 09163514 A 20090623; CN 200910151822 A 20090629; US 48261509 A 20090611