

Title (en)
DUPLEXER HAVING IMPROVED REFLECTIVITY

Title (de)
DUPLEXER MIT VERBESSERTER REFLEKTIVITÄT

Title (fr)
DUPLEXEUR À RÉFLECTIVITÉ AMÉLIORÉE

Publication
EP 3175553 A1 20170607 (DE)

Application
EP 15731001 A 20150615

Priority
• DE 102014110905 A 20140731
• EP 2015063339 W 20150615

Abstract (en)
[origin: WO2016015914A1] A duplexer is proposed that can be used in quadplexers and in diverse carrier aggregation modes. Said duplexer comprises resonators in a ladder type structure, wherein at least one of the parallel resonators in the transmission path is connected to ground in series with an inductance, wherein the parallel resonator in the parallel path, which is closest to the antenna connection, is directly connected to ground and no inductance is arranged in the corresponding parallel path.

IPC 8 full level
H03H 9/70 (2006.01)

CPC (source: EP US)
H03H 9/706 (2013.01 - EP US); **H03H 9/725** (2013.01 - EP US); **H04B 1/401** (2013.01 - US); **H04B 1/44** (2013.01 - US); **H04L 5/04** (2013.01 - US); **H04L 5/1461** (2013.01 - US); **H03H 9/6483** (2013.01 - EP US)

Citation (search report)
See references of WO 2016015914A1

Citation (examination)
• EP 2530837 A1 20121205 - MURATA MANUFACTURING CO [JP]
• WO 2012084741 A1 20120628 - EPCOS AG [DE], et al
• US 2013273860 A1 20131017 - PEHLKE DAVID RICHARD [US]
• US 2014003300 A1 20140102 - WEISSMAN HAIM M [IL], et al

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

DOCDB simple family (publication)
DE 102014110905 A1 20160204; CN 106797209 A 20170531; CN 106797209 B 20191231; EP 3175553 A1 20170607; JP 2017522782 A 20170810; JP 6492109 B2 20190327; US 10270582 B2 20190423; US 2017201369 A1 20170713; WO 2016015914 A1 20160204

DOCDB simple family (application)
DE 102014110905 A 20140731; CN 201580046684 A 20150615; EP 15731001 A 20150615; EP 2015063339 W 20150615; JP 2016570336 A 20150615; US 201515315365 A 20150615