

Title (en)
Duplexer and communication apparatus

Title (de)
Duplexer und Kommunikationsgerät

Title (fr)
Duplexeur et dispositif de communication

Publication
EP 0980109 A3 20010808 (EN)

Application
EP 99115533 A 19990805

Priority
JP 22704698 A 19980811

Abstract (en)
[origin: EP0980109A2] The invention provides a duplexer (31), comprising: a first frequency variable type filter (45) including a voltage-controllable reactance element (D1, D2, D3 D4) and operative to switch transmitting - receiving frequencies corresponding to a first communication system (GSM); a second frequency variable type filter (46) including a voltage-controllable reactance element (D5, D6, D7, D8) and operative to switch transmitting - receiving frequencies corresponding to a second communication system (DCS); a synthetic circuit (47) electrically connected between one end of said first frequency variable type filter (45) and one end of said second frequency variable type filter (46); an antenna terminal (ANT) electrically connected to said synthetic circuit (47); a first external terminal (P1) electrically connected to the other end of said first frequency variable type filter (45); and a second external terminal (P2) electrically connected to the other end of said second frequency variable type filter (46).
<IMAGE>

IPC 1-7
H01P 1/15; **H01P 1/213**; **H01P 1/202**

IPC 8 full level
H01P 1/205 (2006.01); **H01P 1/15** (2006.01); **H01P 1/202** (2006.01); **H01P 1/213** (2006.01); **H01P 11/00** (2006.01); **H03H 7/46** (2006.01)

CPC (source: EP KR)
H01P 1/15 (2013.01 - EP); **H01P 1/202** (2013.01 - EP); **H01P 1/2133** (2013.01 - EP); **H01P 11/00** (2013.01 - KR)

Citation (search report)
• [A] US 5065120 A 19911112 - MUNN ROBERT J [US]
• [A] EP 0287671 A1 19881026 - MATSUSHITA ELECTRIC IND CO LTD [JP]
• [A] EP 0654912 A1 19950524 - MURATA MANUFACTURING CO [JP]
• [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 211 (E - 622) 16 June 1988 (1988-06-16)

Cited by
JP2015186115A; US6683513B2; EP1256997A1; US6950410B1; US6882836B2; WO0207337A3; US6577205B2; US6759916B2; KR100445037B1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0980109 A2 20000216; **EP 0980109 A3 20010808**; JP 2000059106 A 20000225; KR 100327534 B1 20020314; KR 20000017227 A 20000325

DOCDB simple family (application)
EP 99115533 A 19990805; JP 22704698 A 19980811; KR 19990032778 A 19990810