

Title (en)
Duplexer and communication apparatus

Title (de)
Duplexer und Kommunikationsgerät

Title (fr)
Duplexeur et dispositif de communication

Publication
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Application
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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>

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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

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