

Title (en)  
TRANSMISSION MODE MIXING DEVICE COMPRISING REJECTION OF INTERMEDIATE, LOW LATERAL AND LOCAL OSCILLATOR FREQUENCIES

Title (de)  
ÜBERTRAGUNGSMODUS-MISCHEINRICHTUNG MIT ZURÜCKWEISUNG VON ZWISCHENFREQUENZEN, NIEDRIGEN SEITEN- UND EMPFANGSOSZILLATORFREQUENZEN

Title (fr)  
DISPOSITIF DE MELANGE EN EMISSION COMPORTANT UNE REJECTION DES FREQUENCES INTERMEDIAIRES, LATERALE BASSE ET D'OSCILLATEUR LOCAL

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Application  
**EP 02801110 A 20021210**

Priority  
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Abstract (en)  
[origin: WO03061112A1] The invention concerns a mixer device mixing an intermediate frequency signal (IF) with a carrier signal from a local oscillator (LO) so as to produce an output signal comprising mainly a radio-frequency high lateral band component (RF), the low lateral band component and the frequency components (IF and OL) being eliminated. Therefor, the inventive device comprises two phase-shifting lines fed by the intermediate frequency signal and the carrier signal. Each phase-shifting line generates four carrier signals or four intermediate frequency signals successively phase-shifted by an angle of -90 DEG . Said phase-shifted signals feed in pairs four mixers. The output signals of the four mixers pass through successive couplers and a 180 DEG phase-shifter so as to eliminate the LO, IF and LB components and only delivers in output a RF frequency component. The 180 DEG phase-shifting may take place in the phase-shifting lines.

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