

Title (en)  
ZERO IF TRANSCEIVER

Title (de)  
NULL ZF-SENDEEMPFAÑGER

Title (fr)  
EMETTEUR/RECEPTEUR SANS FREQUENCE INTERMEDIAIRE

Publication  
**EP 1329029 A2 20030723 (EN)**

Application  
**EP 01989291 A 20011024**

Priority  
• US 0150894 W 20011024  
• US 69777900 A 20001026

Abstract (en)  
[origin: WO0249224A2] A zero Intermediate Frequency (IF) transmitter and receiver are implemented within a transceiver to eliminate interference in the receive band. An output of a tunable high oscillator to generate a frequency source that is an integer multiple of the desired transmit LO frequency. The frequency source is coupled to an amplitude limiter and frequency divider. The output of the frequency divider is used as the transmit LO to directly upconvert baseband signals to the desired output frequency without the need for an IF stage. Direct upconversion of the baseband transmit signals without an IF stage eliminates spurious frequency products that are produced in the receive band.

IPC 1-7  
**H04B 1/30**; **H04B 1/40**

IPC 8 full level  
**H04B 1/30** (2006.01); **H04B 1/40** (2006.01)

CPC (source: EP KR)  
**H04B 1/16** (2013.01 - KR); **H04B 1/30** (2013.01 - EP); **H04B 1/403** (2013.01 - EP)

Citation (search report)  
See references of WO 0249224A2

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

DOCDB simple family (publication)  
**WO 0249224 A2 20020620**; **WO 0249224 A3 20030313**; AU 4339602 A 20020624; BR 0114908 A 20060509; CA 2426934 A1 20020620; CN 1547807 A 20041117; EP 1329029 A2 20030723; JP 2004521532 A 20040715; KR 20030044043 A 20030602; MX PA03003663 A 20040504

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**US 0150894 W 20011024**; AU 4339602 A 20011024; BR 0114908 A 20011024; CA 2426934 A 20011024; CN 01821347 A 20011024; EP 01989291 A 20011024; JP 2002550413 A 20011024; KR 20037005791 A 20030425; MX PA03003663 A 20011024