Title (en)

Low Noise Block down converter (LNB) for reception of Direct Broadcast Satellite (DBS) signals

Title (de)

Abwärtsumsetzerblock mit schwachem Rauschen für den Empfang von direktem Satelliten-Rundfunk

Title (fr)

Bloc convertisseur à faible bruit pour la réception de la radiodiffusion directe par satellite

Publication

EP 1693980 A3 20081029 (DE)

Application

EP 06003462 A 20060221

Priority

DE 102005008125 A 20050221

Abstract (en)

[origin: EP1693980A2] The receiver has a ZF matrix with frequency converter applying a selected output to a preset ZF frequency band. A coupler block concatenates ZF signals from a ZF converter block and outputs switching signal to an output terminal of cascaded satellite receivers. A power supply device and a micro controller device (26) receive the switching signal and output a control signal to the frequency converter for controlling the matrix. Independent claims are also included for the following: (1) a method of designing a direct broadcast satellite system (2) a method of pairing or coupling of satellite receivers and low noise blocks.

IPC 8 full level

H04H 40/90 (2008.01)

IPC 8 main group level

H04H 1/00 (2006.01)

CPC (source: EP)

H04H 40/90 (2013.01)

Citation (search report)

- [XY] DE 19543717 A1 19970102 - DETTERBECK ANNA [DE], et al
- [Y] WO 03094397 A1 20031113 - KATHREIN WERKE AG [DE], et al
- [A] WO 2004082282 A1 20040923 - THOMSON LICENSING SA [FR], et al
- [A] EP 0994623 A2 20000419 - TELEMEDIA S R L [IT]
- [Y] COPANI T ET AL: "A single-chip receiver for multi-user low-noise block down-converters", SOLID-STATE CIRCUITS CONFERENCE, 2005. DIGEST OF TECHNICAL PAPERS. ISS CC. 2005 IEEE INTERNATIONAL SAN FRANCISCO, CA, USA FEB. 6-10, 2005, PISCATAWAY, NJ, USA,IEEE, 1 January 2005 (2005-01-01), pages 438 - 608Vol.1, XP031173834, ISBN: 978-0-7803-8904-5

Cited by

CN112422930A; CN103858365A; EP2700180A4; CN111314753A; WO2016164005A1; EP2119067A2; US9219557B2; US10439746B2; US11616585B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1693980 A2 20060823; **EP 1693980 A3 20081029**; DE 102005008125 A1 20060907

DOCDB simple family (application)

EP 06003462 A 20060221; DE 102005008125 A 20050221