

Title (en)

METHOD FOR MEASURING TRANSMISSION FREQUENCIES USING A ROTARY INTERFEROMETER

Title (de)

VERFAHREN ZUR MESSUNG VON SENDEFREQUENZEN MIT EINEM ROTATIONSINTERFEROMETER

Title (fr)

PROCEDE DE MESURE DE FREQUENCES D'EMISSION AU MOYEN D'UN INTERFEROMETRE ROTATIF

Publication

**EP 2671089 A1 20131211 (FR)**

Application

**EP 12702004 A 20120126**

Priority

- FR 1100337 A 20110203
- EP 2012051264 W 20120126

Abstract (en)

[origin: WO2012104201A1] The invention relates to a method for measuring the carrier frequency of the radio-electric signal transmitted by a remote transmitter using an antenna comprising at least two wideband sub-antennas which are located in a same plane and the phase centers of which are separated by a distance d. The sub-antennas are combined so as to form an interferometry base. The radio-electric signals received by the two sub-antennas are jointly processed so as to form a video signal characterizing the phase difference that exists between the radio-electric signals received by said sub-antennas. The method comprises measuring the frequency of the video signal, and deducing the carrier frequency of the radio-electric signal transmitted by the transmitter therefrom. The measurement of the carrier frequency of the radio-electric signal transmitted by the transmitter is equal, plus or minus one scale factor, to the measurement of the frequency of the formed video signal.

IPC 8 full level

**G01R 23/00** (2006.01); **G01S 3/46** (2006.01); **G01S 13/44** (2006.01)

CPC (source: EP)

**G01S 3/46** (2013.01); **G01S 13/4454** (2013.01); **H01Q 3/04** (2013.01); **H01Q 21/28** (2013.01)

Citation (search report)

See references of WO 2012104201A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**FR 2971340 A1 20120810**; **FR 2971340 B1 20140307**; BR 112013019845 A2 20161011; EP 2671089 A1 20131211; WO 2012104201 A1 20120809

DOCDB simple family (application)

**FR 1100337 A 20110203**; BR 112013019845 A 20120126; EP 12702004 A 20120126; EP 2012051264 W 20120126