

Title (en)
EXTRACTING THE PHASE OF AN OFDM SIGNAL SAMPLE

Title (de)
PHASENEXTRAXTION EINES OFDM-SIGNALABTASTWERTES

Title (fr)
EXTRACTION DE LA PHASE D'UN ECHANTILLON DE SIGNAL A MULTIPLEXAGE PAR REPARTITION ORTHOGONAL DE LA FREQUENCE

Publication
EP 1532759 A4 20100714 (EN)

Application
EP 02756842 A 20020731

Priority
US 0224263 W 20020731

Abstract (en)
[origin: WO2004014005A1] The disclosed embodiments relate to exploiting circuitry that exists in a typical Orthogonal Frequency Division Multiplexing (OFDM) receiver to find the phase of a complex number corresponding to an input signal without implementing additional costly circuitry or employing a relatively slow inverse tangent look-up table. The magnitude of the complex number is normalized (106) and processed (108, 110) through a closed loop to produce an output (112) proportional to the phase of the complex number.

IPC 8 full level
H04B 1/16 (2006.01); **H04J 11/00** (2006.01); **H04L 27/26** (2006.01); **H04L 27/00** (2006.01)

CPC (source: EP)
H04L 27/2657 (2013.01); **H04L 27/2684** (2013.01); **H04L 2027/0067** (2013.01)

Citation (search report)

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- [XAY] WO 9840991 A1 19980917 - INTERDIGITAL TECH CORP [US]
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- [A] WO 9927671 A1 19990603 - SAMSUNG ELECTRONICS CO LTD [KR], et al
- [A] EP 0952714 A2 19991027 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2004014005A1

Designated contracting state (EPC)
DE FR GB

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WO 2004014005 A1 20040212; AU 2002322823 A1 20040223; CN 1669256 A 20050914; EP 1532759 A1 20050525; EP 1532759 A4 20100714; JP 2005535224 A 20051117

DOCDB simple family (application)
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