Title (en)
FILTER MODELLING FOR PIM CANCELLATION

Title (de)
FILTERMODELLIERUNG ZUR PIM-UNTERDRÜCKUNG

Title (fr)
MODÉLISATION DE FILTRE POUR UNE ANNULATION DE PIM

Publication
EP 3827522 A1 20210602 (EN)

Application
EP 18830026 A 20181126

Priority
• US 2018038262 W 20180619
• US 2018062443 W 20181126

Abstract (en)
[origin: WO2019245533A1] An apparatus and method are disclosed relating to estimating a delay, and primarily, though not exclusively, to estimating a delay for use in Passive Intermodulation (PIM) cancellation, i.e. for alignment. The method comprises adapting one or more transmit signals within a defined band to improve the autocorrelation properties of the transmit signal. The method may also comprise generating on the basis of at least the transmit signal and a corresponding receive signal a respective passive intermodulation signal comprising a simulated nth order passive intermodulation product, where n is an odd integer greater than two. The method may also comprise correlating the generated passive intermodulation signal with the receive signal to identify a correlation peak, and determining a time offset (tdeiay) to apply to the generated passive intermodulation signal based on the correlation peak.

IPC 8 full level
H04B 1/525 (2015.01); **H04B 17/29** (2015.01)

CPC (source: EP)
H04B 1/525 (2013.01); **H04B 17/29** (2015.01)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019245533 A1 20191226; EP 3827522 A1 20210602; WO 2019245598 A1 20191226

DOCDB simple family (application)
US 2018038262 W 20180619; EP 18830026 A 20181126; US 2018062443 W 20181126