

Title (en)
METHOD AND DEVICE FOR REDUCING NOISE IN A MODULE SIGNAL

Title (de)
VERFAHREN UND VORRICHTUNG ZUR RAUSCHUNTERDRÜCKUNG BEI EINEM MODULSIGNAL

Title (fr)
PROCEDE ET DISPOSITIF DE REDUCTION DE BRUIT DANS UN SIGNAL MODULE

Publication
EP 3449381 A1 20190306 (FR)

Application
EP 17721098 A 20170427

Priority
• FR 1653787 A 20160428
• EP 2017060087 W 20170427

Abstract (en)
[origin: WO2017186861A1] The present invention pertains essentially to a method of reducing noise in a modulated electrical signal (a(t)) exhibiting a carrier frequency (f₀), the method comprising the following steps: - acquiring (E1) in the time domain the modulated signal so as to obtain a plurality of pieces (k) of the modulated signal; - calculating (E2), by transformation into the frequency domain, a spectrum (A_k) of each piece of the modulated signal, the spectrum comprising an upper sideband (BLS) extending over a span of frequencies greater than the carrier frequency, and a lower sideband (BLI) extending over a span of frequencies lower than the carrier frequency, the spectrum comprising first values belonging to the upper sideband and second values belonging to the lower sideband; - calculating (E3) a power spectrum (P_k) for each piece of the signal modulated on the basis of the first values of the upper sideband and of the second values of the lower sideband of the spectrum of the spectrum of said each piece of the modulated signal; - calculating (E4) an average (PM) of the power spectra.

IPC 8 full level
G06F 17/18 (2006.01); **H04L 27/00** (2006.01)

CPC (source: EP US)
G06F 17/18 (2013.01 - EP US); **H04B 1/10** (2013.01 - US); **H04L 27/14** (2013.01 - EP US); **H04L 27/22** (2013.01 - EP);
H04L 27/2334 (2013.01 - US)

Citation (search report)
See references of WO 2017186861A1

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 2017186861 A1 20171102; EP 3449381 A1 20190306; FR 3050849 A1 20171103; FR 3050849 B1 20190830; US 11126693 B2 20210921;
US 2019138572 A1 20190509

DOCDB simple family (application)
EP 2017060087 W 20170427; EP 17721098 A 20170427; FR 1653787 A 20160428; US 201716097022 A 20170427