

Title (en)

SENSOR ARRANGEMENT WITH VARIABLE CARRIER FREQUENCY AND GOERTZEL FILTERING

Title (de)

SENSORANORDNUNG MIT EINER VARIABLEN TRÄGERFREQUENZ UND GOERTZEL FILTERUNG

Title (fr)

ENSEMBLE DE CAPTEURS À FRÉQUENCE PORTEUSE VARIABLE ET FILTRAGE GOERTZEL

Publication

EP 3149608 A1 20170405 (DE)

Application

EP 15727899 A 20150520

Priority

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- EP 2015061183 W 20150520

Abstract (en)

[origin: WO2015181031A1] Method for processing a signal modulated with a variable carrier frequency, in particular of a sensor arrangement, comprising the steps: - calculating a coefficient (c(n)) to demodulate the signal; - demodulating the signal by calculating discrete intermediate values (s, s1, s2) by means of the coefficient for a predefined maximum number of steps (n_max), and calculating the signal on the basis of the intermediate values and a coefficient (c(n)), wherein a Goertzel filter is used in order to calculate an amplitude component.

IPC 8 full level

G06F 17/14 (2006.01); **G01D 5/00** (2006.01); **H04B 1/30** (2006.01); **H04L 25/06** (2006.01); **H04L 27/02** (2006.01); **H04L 27/26** (2006.01)

CPC (source: CN EP KR US)

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Citation (search report)

See references of WO 2015181031A1

Citation (examination)

- EP 2755360 A1 20140716 - ABB TECHNOLOGY AG [CH]
- US 2012221252 A1 20120830 - HEINZ ROBERT E [US], et al

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

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