

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**

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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.

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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

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