

Title (en)

ADAPTIVE FILTERING FOR DETERMINING VITAL PARAMETERS MORE RELIABLY

Title (de)

ADAPTIVE FILTERUNG ZUR ZUVERLÄSSIGEREN BESTIMMUNG VON VITALPARAMETERN

Title (fr)

FILTRAGE ADAPTIF PERMETTANT UNE DÉTERMINATION PLUS FIABLE DES PARAMÈTRES VITAUX

Publication

EP 1987442 A2 20081105 (DE)

Application

EP 07703308 A 20070206

Priority

- EP 2007001003 W 20070206
- DE 102006007879 A 20060220
- DE 102006022055 A 20060511

Abstract (en)

[origin: DE102006022055A1] The device has a primary provisioning unit (110) for provisioning time-discrete signal with a noise component. A secondary provisioning device (120) provisions a primary time-discrete reference signal with a primary noise component and a secondary time-discrete reference with a secondary noise component. A subtraction unit (130) produces a differential signal from the two reference signals. The differential signal has a frequency component, induced by the noise components and a manipulation unit (140) for manipulating the time-discrete signal, so that the frequency component is reduced. An independent claim is also included for a method to reduce a noise component in a time-discrete signal.

IPC 8 full level

G06F 17/00 (2006.01)

CPC (source: EP US)

A61B 5/02416 (2013.01 - EP US); **A61B 5/14551** (2013.01 - EP US); **A61B 5/7207** (2013.01 - EP US); **A61B 5/7257** (2013.01 - EP US); **G06F 2218/04** (2023.01 - EP US)

Citation (search report)

See references of WO 2007096054A2

Citation (examination)

- WO 9215955 A1 19920917 - VITAL SIGNALS INC [US]
- US 5934277 A 19990810 - MORTZ MARGARET S [US]
- US 6714803 B1 20040330 - MORTZ MARGARET S [US]
- EP 1568320 A1 20050831 - GEN ELECTRIC [US]
- US 5800348 A 19980901 - KAESTLE SIEGFRIED [DE]
- EP 1254628 A1 20021106 - INSTRUMENTARIUM CORP [FI]
- WO 9846126 A1 19981022 - MASIMO CORP [US]

Designated contracting state (EPC)

DE ES FR GB

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006022055 A1 20070830; EP 1987442 A2 20081105; US 2009216499 A1 20090827; US 8676542 B2 20140318; WO 2007096054 A2 20070830; WO 2007096054 A8 20080904

DOCDB simple family (application)

DE 102006022055 A 20060511; EP 07703308 A 20070206; EP 2007001003 W 20070206; US 28016107 A 20070206