

Title (en)

INTERFERENCE REDUCTION IN MONITORING A VITAL PARAMETER OF A PATIENT

Title (de)

INTERFERENZUNTERDRÜCKUNG BEI DER ÜBERWACHUNG EINES VITALPARAMETERS EINES PATIENTEN

Title (fr)

RÉDUCTION D'INTERFÉRENCE DANS LA SURVEILLANCE D'UN PARAMÈTRE VITAL D'UN PATIENT

Publication

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Application

**EP 11716043 A 20110316**

Priority

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- IB 2011051100 W 20110316
- EP 11716043 A 20110316

Abstract (en)

[origin: WO2011117780A1] The invention relates to a method of and device for monitoring a vital parameter of a patient by emitting light onto tissue of the patient with at least one light source (1, 2) and collecting light which is transmitted through the tissue and/or which is reflected from the tissue. The emitted light is multiplexed according to a predefined multiplexing scheme having a plurality of multiplexing channels, and the collected light is detected according to the predefined multiplexing scheme, resulting in a plurality of detection channels (16, 17, 18, 19). At least one of the multiplexing channels is arranged to be a dark multiplexing channel for which no light is emitted by the at least one light source (1, 2), resulting in a dark detection channel (19), and the signal of this dark detection channel (19) is used for generating a reference signal for reducing interference in the signal of at least one of the other detection channels (16, 17, 18). In this way a versatile and reliable possibility of monitoring a vital parameter of a patient with a high signal-to-interference ratio is provided.

IPC 8 full level

**A61B 5/1455** (2006.01)

CPC (source: EP)

**A61B 5/1452** (2013.01)

Citation (search report)

See references of WO 2011117780A1

Citation (examination)

- US 5632272 A 19970527 - DIAB MOHAMED K [US], et al
- US 6606511 B1 20030812 - ALI AMMAR AL [US], et al

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