Title (en)

SYSTEMS AND METHODS FOR SPECTRAL ANALYSIS AND GAIN ADJUSTMENT

Title (de)

SYSTEME UND VERFAHREN ZUR SPEKTRALANALYSE UND VERSTÄRKUNGSEINSTELLUNG

Title (fr)

SYSTÈMES ET PROCÉDÉS D'ANALYSE SPECTRALE ET DE RÉGLAGE DE GAIN

Publication

**EP 3520080 A4 20200617 (EN)**

Application

**EP 17857391 A 20170928**

Priority

- US 201615282419 A 20160930
- US 2017053906 W 20170928

Abstract (en)

[origin: WO2018064274A1] A radiation detection system includes a detector unit and at least one processor. The detector unit is configured to generate signals responsive to radiation. The at least one processor is operably coupled to the detector unit and configured to receive the signals from the detector unit. The at least one processor is configured to obtain, during an imaging process, a first count for at least one of the signals corresponding to a first intrinsic energy window, the first energy window corresponding to values higher than an intrinsic peak value; obtain a second count for the at least one of the signals corresponding to a second intrinsic energy window, the second energy window corresponding to values lower than the intrinsic peak value; and adjust a gain applied to the signals based on at least the first count and the second count.

IPC 8 full level

**G01T 1/17** (2006.01); **G01T 1/40** (2006.01); **G06K 9/00** (2006.01); **G06T 11/00** (2006.01)

CPC (source: EP)

**A61B 6/037** (2013.01); **A61B 6/4258** (2013.01); **G01T 1/17** (2013.01); **G01T 1/40** (2013.01)

Citation (search report)

- [XYI] WO 2010053818 A2 20100514 - SCHLUMBERGER CA LTD [CA], et al
- [XY] EP 0942296 A2 19990915 - HALLIBURTON ENERGY SERV INC [US]
- [Y] WO 2016053350 A1 20160407 - HALLIBURTON ENERGY SERVICES INC [US]
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- [A] US 2008251709 A1 20081016 - COOKE STEVEN [US], et al
- See references of WO 2018064274A1

Designated contracting state (EPC)

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