

Title (en)

CALIBRATION METHOD AND APPARATUS FOR ACTIVE PIXEL HYPERSPECTRAL SENSORS AND CAMERAS

Title (de)

KALIBRIERVERFAHREN UND -VORRICHTUNG FÜR HYPERSPEKTRALE AKTIVPIXELSENSOREN UND -KAMERAS

Title (fr)

PROCÉDÉ ET APPAREIL D'ÉTALONNAGE POUR CAPTEURS ET CAMÉRAS HYPERSPECTRAUX À PIXELS ACTIFS

Publication

EP 3535553 A4 20200930 (EN)

Application

EP 17867023 A 20171107

Priority

- US 201662418755 P 20161107
- US 2017060409 W 20171107

Abstract (en)

[origin: WO2018085841A1] The present invention relates to the calibration of hyperspectral sensors and camera systems. More specifically, the invention relates to the apparatus and methods to be used to measure the characteristics of camera systems based on active pixel sensors with Fabry-Perot filters deposited directly onto the active pixel array, to improve the usage of such systems in various applications, including agriculture, medicine, and other fields of use that benefit from a better calibrated hyperspectral system. The use of the calibration information enhances the efficiency of the software processing of the raw images collected with such sensor, and the quality and usefulness of the processed output of such camera system.

IPC 8 full level

G01J 3/26 (2006.01); **G01J 3/02** (2006.01); **G01J 3/28** (2006.01); **G01J 3/45** (2006.01); **H04N 5/357** (2011.01)

CPC (source: EP)

G01J 3/26 (2013.01); **G01J 3/28** (2013.01); **G01J 3/2823** (2013.01); **H04N 25/63** (2023.01); **H04N 25/673** (2023.01)

Citation (search report)

[I] PRASHANT AGRAWAL ET AL: "Characterization of VNIR Hyperspectral Sensors with Monolithically Integrated Optical Filters", ELECTRONIC IMAGING, vol. 2016, no. 12, 14 February 2016 (2016-02-14), pages 1 - 7, XP055697183, ISSN: 2470-1173, DOI: 10.2352/ISSN.2470-1173.2016.12.IMSE-280

Cited by

CN112444502A; CN112444503A

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

DOCDB simple family (publication)

WO 2018085841 A1 20180511; EP 3535553 A1 20190911; EP 3535553 A4 20200930

DOCDB simple family (application)

US 2017060409 W 20171107; EP 17867023 A 20171107