Title (en)

METHOD FOR READING AN IMAGING DEVICE

Title (de)

VERFAHREN ZUM AUSLESEN EINER BILDGEBUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ DE LECTURE D'UN DISPOSITIF D'IMAGERIE

Publication

EP 2936800 A1 20151028 (FR)

Application

EP 13814964 A 20131220

Priority

- FR 1262662 A 20121221
- EP 2013077861 W 20131220

Abstract (en)

[origin: WO2014096433A1] The invention concerns a method for reading an imaging device intended for capturing images in a detector comprising a high number of photosensitive points called pixels organised into a matrix. The pixels of a given column are linked to a column conductor (Col(j)) that makes it possible to consecutively read photosignals acquired by the pixels of the column, the method consisting, for each of the pixels, of carrying out a correlated double sampling read phase, the read phase comprising an operation of resetting the pixel (11, 15) followed by two reading operations (12, 14, 16, 18), the first without a photosignal, and the second with the photosignal. According to the invention, for the pixels of a given column, three steps are carried out in succession: 1 a first of the operations of reading (14; 72) the pixel of a first row (l), 2 one of the operations of reading (18; 76) a second row (1+1), 3 a second of the operations of reading (12; 74) the pixel of the first row (l).

IPC 8 full level

H04N 5/341 (2011.01); **H04N 5/353** (2011.01); **H04N 5/374** (2011.01); **H04N 5/378** (2011.01)

CPC (source: EP US)

H04N 25/40 (2023.01 - US); **H04N 25/531** (2023.01 - EP US); **H04N 25/75** (2023.01 - US); **H04N 25/76** (2023.01 - EP US); **H04N 25/78** (2023.01 - EP)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3000347 A1 20140627; **FR 3000347 B1 20160304**; CN 104937922 A 20150923; EP 2936800 A1 20151028; JP 2016502365 A 20160121; KR 20150100816 A 20150902; US 2015350581 A1 20151203; US 9648257 B2 20170509; WO 2014096433 A1 20140626

DOCDB simple family (application)

FR 1262662 A 20121221; CN 201380071066 A 20131220; EP 13814964 A 20131220; EP 2013077861 W 20131220; JP 2015548667 A 20131220; KR 20157019747 A 20131220; US 201314653785 A 20131220