Title (en)
METHOD FOR CONTROLLING A MATRIX DETECTOR, AND MATRIX DETECTOR

Title (de)
VERFAHREN ZUR STEUERUNG EINES MATRIXDETEKTORS UND MATRIXDETEKTOR

Title (fr)
PROCÉDÉ DE COMMANDE D'UN DÉTECTEUR MATRICIEL, ET DÉTECTEUR MATRICIEL

Publication
EP 4078432 A1 20221026 (FR)

Application
EP 20824579 A 20201218

Priority
- FR 1915374 A 20191220
- EP 2020086968 W 20201218

Abstract (en)
[origin: WO2021123123A1] The invention relates to a method for controlling a matrix detector, the detector comprising a touch-sensitive surface, a matrix of imaging pixels disposed in lines and in columns, and an illuminating surface, each pixel (PI) comprising a transistor (TR) and a photodiode (PH), the pixels (PI) of at least one line being able to be activated or deactivated by an addressing device (DA), the pixels (PI) of a same column being connected to a charge integrator (IC) able to be energised so as to read the contents of a pixel (PI) when this pixel is activated by the addressing device (DA), characterised in that the method comprises the following steps: - as long as a contact is not been detected by the touch-sensitive surface, controlling the detector in a so-called standby mode, the standby mode comprising, in a periodic manner, an activation of all the pixels (PI) of the matrix detector during a first period of duration T1 by the addressing device (DA), and a deactivation by the addressing device (DA) of all the pixels (PI) during a second period of duration T2; - on detection of the contact by the touch-sensitive surface, controlling the detector in a so-called normal mode, the normal mode comprising the sequential activation of the pixels (PI), line by line, and reading of the pixel (PI) activated in each column by the corresponding charge integrator (IC), by switching on the illuminating surface.

IPC 8 full level
G06K 9/00 (2022.01)

CPC (source: EP US)
G06F 3/0416 (2013.01 - US); **G06F 3/044** (2013.01 - US); **G06V 40/1318** (2022.01 - EP)

Citation (search report)
See references of WO 2021123123A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
FR 3105691 A1 20210625; EP 4078432 A1 20221026; US 2023039193 A1 20230209; WO 2021123123 A1 20210624

DOCDB simple family (application)
FR 1915374 A 20191220; EP 2020086968 W 20201218; EP 20824579 A 20201218; US 202017787417 A 20201218