

Title (en)
METHOD AND DEVICE FOR GENERATING IMAGES HAVING A REDUCED ERROR RATE, HIGH RESOLUTION AND IMPROVED CONTRAST

Title (de)
VERFAHREN UND EINRICHTUNG ZUR ERZEUGUNG VON FEHLERREDUZIERTEN HOCHAUFLÖSENDEN UND KONTRASTVERBESSERTEN BILDERN

Title (fr)
PROCÉDÉ ET DISPOSITIF DE PRODUCTION D IMAGES À DÉFAUTS RÉDUITS, HAUTE RÉOLUTION ET CONTRASTE AMÉLIORÉ

Publication
EP 2308227 A1 20110413 (DE)

Application
EP 09775956 A 20090711

Priority
• DE 2009000971 W 20090711
• DE 102008034979 A 20080725

Abstract (en)
[origin: WO2010009703A1] The invention relates to a method for generating images having a reduced error rate, high resolution and improved contrast from image sequences containing images having lower resolutions, which can be obtained from an image sensor having adjustable recording parameters. According to the invention, the image sequences of the images (K, R) having low resolutions are subjected to a combination of super-resolution processing (SR) and high dynamic range reconstruction processing (HDR) in order to obtain images having a reduced error rate, high resolution and improved contrast on the basis of redundant and complementary image information contained in the images having low resolution.

IPC 8 full level
H04N 5/235 (2006.01); **G06T 5/50** (2006.01)

CPC (source: EP US)
G06T 3/4061 (2013.01 - EP US); **G06T 5/50** (2013.01 - EP US); **H04N 23/70** (2023.01 - EP US); **G06T 2200/21** (2013.01 - EP US); **G06T 2207/20208** (2013.01 - EP US); **G06T 2207/20221** (2013.01 - EP US)

Citation (search report)
See references of WO 2010009703A1

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008034979 A1 20100128; DE 102008034979 B4 20110707; EP 2308227 A1 20110413; US 2011182528 A1 20110728; US 8849059 B2 20140930; WO 2010009703 A1 20100128

DOCDB simple family (application)
DE 102008034979 A 20080725; DE 2009000971 W 20090711; EP 09775956 A 20090711; US 200913055621 A 20090711