

Title (en)

Solid-state imaging device, driving method of solid-state imaging device, and electronic apparatus

Title (de)

Festkörper-Abbildungsanordnung, Ansteuerungsverfahren für Festkörper-Abbildungsanordnung und elektronische Vorrichtung

Title (fr)

Dispositif de capture d'image à semi-conducteur, procédé de contrôle de ce dispositif de capture d'image à semi-conducteur et appareil électronique

Publication

EP 2234387 B8 20120523 (EN)

Application

EP 10002531 A 20100310

Priority

- JP 2009072575 A 20090324
- JP 2009153620 A 20090629

Abstract (en)

[origin: EP2234387A1] A solid-state imaging device includes a first chip including a plurality of pixels, each pixel including a light sensing unit generating a signal charge responsive to an amount of received light, and a plurality of MOS transistors reading the signal charge generated by the light sensing unit and outputting the read signal charge as a pixel signal, a second chip including a plurality of pixel drive circuits supplying desired drive pulses to pixels, the second chip being laminated beneath the first chip in a manner such that the pixel drive circuits are arranged beneath the pixels formed in the first chip to drive the pixels, and a connection unit for electrically connecting the pixels to the pixel drive circuits arranged beneath the pixels.

IPC 8 full level

H01L 27/14 (2006.01); **H04N 3/14** (2006.01); **H04N 5/335** (2011.01); **H04N 5/374** (2011.01); **H04N 5/376** (2011.01)

CPC (source: EP KR US)

H01L 27/14634 (2013.01 - EP US); **H01L 27/14636** (2013.01 - EP US); **H01L 27/1464** (2013.01 - EP US); **H04N 23/57** (2023.01 - EP US); **H04N 25/00** (2023.01 - EP KR US); **H04N 25/65** (2023.01 - US); **H04N 25/745** (2023.01 - EP US); **H04N 25/76** (2023.01 - EP US); **H04N 25/79** (2023.01 - EP US); **H01L 27/14627** (2013.01 - EP US)

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EP3174286A1; EP2822271A4; CN108028897A; EP2700220A4; EP3062345A1; EP3386190A4; EP3471401A4; EP3852358A1; US10356314B2; KR20140027357A; EP2708022A4; EP2706911A4; EP2706904A4; AU2012253253B2; CN113394239A; EP3468169A4; EP3726830A1; CN103907133A; CN104054328A; EP2750375A4; EP3171408A1; EP3328072A3; EP3783657A1; US10413162B2; US10910430B2; US10021325B2; US9013615B2; US9641776B2; US10122945B2; WO2013041924A1; WO2015093022A1; US11303833B2; US11558568B2; US11722799B2; EP3471401B1; US8890047B2; US9231011B2; US9350929B2; US9509933B2; US9654708B2; US9736409B2; US9838626B2; US9906753B2; US10027912B2; US10554912B2; US9185307B2; US9712723B2; US10517469B2; US10980406B2; US11344189B2; US11903564B2; US9064769B2; US9263489B2; US9368533B2; US9368534B2; US10075626B2; US10701254B2; US11089192B2; US11766175B2; US11924403B2; WO2012155142A1; WO2012155152A1; US9622650B2; US9763566B2; US9907459B2; US9980633B2; US10517471B2; US10537234B2; US10709319B2; US10750933B2; US10863894B2; US10881272B2; US11026565B2; US11109750B2; US11179029B2; US11253139B2; US11432715B2; US11682682B2; US10659707B2; US11082651B2; US11089248B2; US11588990B2; US11843881B2

Designated contracting state (EPC)

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DOCDB simple family (application)

EP 10002531 A 20100310; AT 10002531 T 20100310; CN 201010138514 A 20100317; KR 20100023269 A 20100316; KR 20160115409 A 20160908; KR 20170020423 A 20170215; KR 20170085192 A 20170705; TW 99107283 A 20100312; US 201414475286 A 20140902; US 201514633903 A 20150227; US 201715684804 A 20170823; US 72593810 A 20100317