

Title (en)

IMAGE PICK-UP APPARATUS INCLUDING A CORRECTION UNIT

Title (de)

BILDAUFNAHMEVORRICHTUNG MIT KORREKTUREINHEIT

Title (fr)

APPAREIL DE PRISE DE VUES COMPRENANT UNE UNITE DE CORRECTION

Publication

EP 0983685 A2 20000308 (EN)

Application

EP 99903881 A 19990304

Priority

- EP 99903881 A 19990304
- EP 98200886 A 19980319
- IB 9900373 W 19990304

Abstract (en)

[origin: WO9948286A2] The image pick-up apparatus (1) is provided with an image sensor (2) which includes a plurality of photoelectric elements which convert radiation into electrical charges. A control system (4) is arranged to read out separately electrical charges representing brightness values of the image and electrical charges representing smear. The read-out unit is arranged to derive a correction signal (SC) from the electrical charges representing smear and to derive a primary image signal (PS) from the electrical charges representing brightness values of the image. The correction unit derives a corrected image signal (VS) from the primary image signal and the correction signal. The control system (4) is especially arranged to derive the correction signal from the largest electrical charges from among the electrical charges representing smear, so that only a comparatively small number of electrical charges need be read out so as to obtain the correction signal. Preferably, the electrical charges are read out while radiation is incident on the image sensor so that only a very short period of time is required to read out the image sensor and to derive the corrected image signal.

IPC 1-7

H04N 5/325

IPC 8 full level

G01N 23/04 (2006.01); **H04N 5/32** (2006.01); **H04N 5/325** (2006.01); **H04N 5/335** (2006.01); **H05G 1/36** (2006.01)

CPC (source: EP)

H04N 5/32 (2013.01); **H05G 1/36** (2013.01)

Citation (search report)

See references of WO 9948286A2

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

WO 9948286 A2 19990923; **WO 9948286 A3 19991216**; EP 0983685 A2 20000308; JP 2002509674 A 20020326

DOCDB simple family (application)

IB 9900373 W 19990304; EP 99903881 A 19990304; JP 54676199 A 19990304