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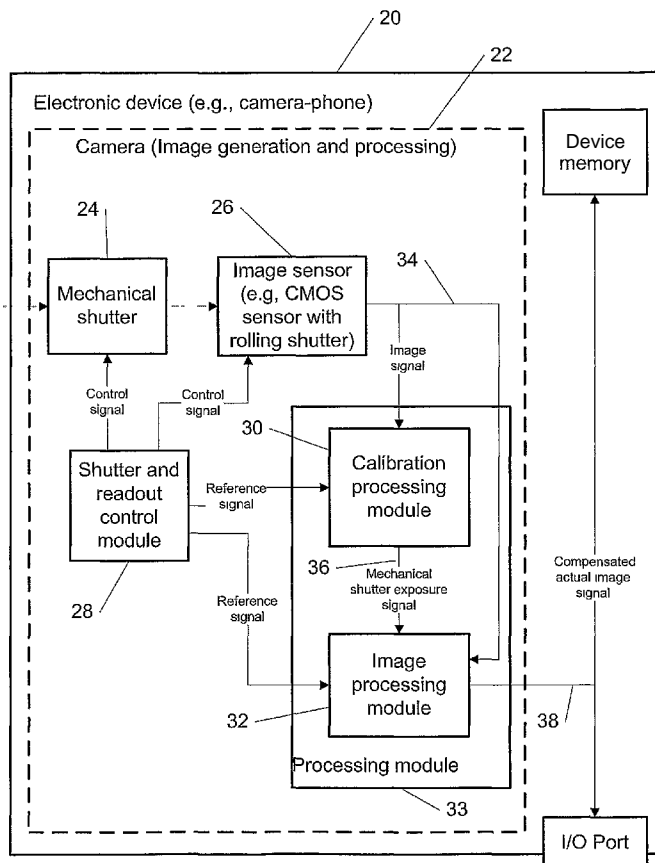
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[Continued on next page]

(54) **Title:** DETERMINATION OF MECHANICAL SHUTTER EXPOSURE TIME



(57) **Abstract:** The specification and drawings present a new method, apparatus and software product for determining a mechanical shutter exposure time (e.g., an actual closing time) with a rolling readout of an image (e.g., complimentary metal oxide semiconductor) sensor using a predetermined calibration area of the image sensor in digital cameras or in electronic devices with digital cameras.

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GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
INV. H04N5/235

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and where practical search terms used)

EPO-Internal , WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document with indication where appropriate of the relevant passages	Relevant to claim No
X	JP 2006 211216 A (CANON KK) 10 August 2006 (2006-08-10) paragraphs [0006] - [0014], [0034] - [0067]; figures 1,2,5-8 -----	1-33
E	EP 1 898 635 A (CANON KK [JP]) 12 March 2008 (2008-03-12) the whole document -----	1-33
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A	US 6 542 194 B1 (JUNEN MASAHIRO [JP]) 1 April 2003 (2003-04-01) the whole document -----	1-33

**D**

Further documents are listed in the continuation of Box C

See patent family annex

## \* Special categories of cited documents

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'P\*' document published prior to the international filing date but later than the priority date claimed

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'V' document of particular relevance the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art

'&' document member of the same patent family

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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<b>US</b> 2004218087 <b>A1</b>	04-11-2004	<b>JP</b> 2004326119 <b>A</b>	18-11-2004
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