

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2012/065738

## A. CLASSIFICATION OF SUBJECT MATTER

H01L31/042(2006.01) i

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)

H01L31/04-31/078, 51/42

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

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2012
Kokai Jitsuyo Shinan Koho	1971-2012	Toroku Jitsuyo Shinan Koho	1994-2012

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

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2007-27150 A (Hitachi Chemical Co., Ltd.), 01 February 2007 (01.02.2007), fig. 1 to 6 & WO 2004/114418 A1	1-12
Y	JP 2011-503902 A (Qualcomm MEMS Technologies, Inc.), 27 January 2011 (27.01.2011), paragraph [0020]; fig. 1 to 13 & US 2009/0126792 A1 & EP 2061092 A1 & EP 2061093 A1 & WO 2009/064701 A1 & CN 101904016 A	1-12
Y	JP 2005-19587 A (Kuraray Co., Ltd.), 20 January 2005 (20.01.2005), claim 5; paragraph [0032] (Family: none)	1-12

 Further documents are listed in the continuation of Box C. See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"&amp;" document member of the same patent family

Date of the actual completion of the international search  
26 July, 2012 (26.07.12)Date of mailing of the international search report  
07 August, 2012 (07.08.12)Name and mailing address of the ISA/  
Japanese Patent Office

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2007-103713 A (Sharp Corp.), 19 April 2007 (19.04.2007), paragraphs [0013], [0036], [0044] to [0046]; fig. 2 to 7 & US 2009/0050192 A1 & WO 2007/040086 A1	4
Y	JP 11-354824 A (Sanyo Electric Co., Ltd.), 24 December 1999 (24.12.1999), paragraphs [0022] to [0030]; fig. 1 to 6 (Family: none)	5
Y	JP 2005-90889 A (Hideo KUROSAWA), 07 April 2005 (07.04.2005), fig. 1, 2 (Family: none)	5
Y	JP 02-130430 A (Yoshiyuki OSATO), 18 May 1990 (18.05.1990), page 2, upper left column to upper right column (Family: none)	8-10
Y	JP 11-046008 A (Toyota Motor Corp.), 16 February 1999 (16.02.1999), fig. 1 (Family: none)	8-10
Y	JP 2010-205764 A (Mitsubishi Electric Corp.), 16 September 2010 (16.09.2010), paragraph [0018]; fig. 1 to 7 (Family: none)	11-12