



(88) Date of publication of the international search report:
24 October 2013

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI2013/050154

A. CLASSIFICATION OF SUBJECT MATTER

See extra sheet

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)

IPC: C23C, H01L, B05B

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

FI, SE, NO, DK

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

EPO-Internal, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2008130369 A1 (YOON HYUNGSUK ALEXANDER [US] et al.)	1-14, 16-27
A	23 October 2008 (23.10.2008) paragraphs [54]-[64]; figs. 5A, 5E-F, 7A-7D	15
X	US 2010037820 A1 (LEE SANG IN [US]) 18 February 2010 (18.02.2010)	1-14, 16-27
A	paragraphs [0049]-[0059]; [0081]; claims; figs. 2-4C, 5A-10	15

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

* Special categories of cited documents:

"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

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" 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

Date of the actual completion of the international search

30 August 2013 (30.08.2013)

Date of mailing of the international search report

04 September 2013 (04.09.2013)

Name and mailing address of the ISA/FI
National Board of Patents and Registration of Finland
P.O. Box 1160, FI-00101 HELSINKI, Finland

Facsimile No. +358 9 6939 5328

Authorized officer

Timo Kallio

Telephone No. +358 9 6939 500

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI2013/050154

CLASSIFICATION OF SUBJECT MATTER

Int.Cl.

C23C 16/00 (2006.01)

C23C 16/455 (2006.01)

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/FI2013/050154

Patent document cited in search report	Publication date	Patent family members(s)	Publication date
WO 2008130369 A1	23/10/2008	CN 101663734 A	03/03/2010
		CN 101663734 B	03/10/2012
		JP 2010525162 A	22/07/2010
		KR 20100015594 A	12/02/2010
		TW 200842945 A	01/11/2008
		US 8287647 B2	16/10/2012
		US 2012248219 A1	04/10/2012
		US 2013040460 A1	14/02/2013
		WO 2008130369 A1	30/10/2008
.....			
US 2010037820 A1	18/02/2010	None	
.....			