

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2019/085647

A. CLASSIFICATION OF SUBJECT MATTER**H01L 33/00**(2010.01)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)

H01L

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 practicable, 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	US 2018219123 A1 (WANG LONG [CN] ET AL) 02 August 2018 (2018-08-02) paragraphs [0049], [0052] - [0055], [0057], [0059], [0067], [0079]; figures 1-3	1-5,11,12
X	WO 2018061896 A1 (TORAY ENG CO LTD [JP]) 05 April 2018 (2018-04-05) paragraphs [0024] - [0026], [0045]; figure 1	1,2,5,6,8,12
X	US 2010258543 A1 (MIZUNO TAKESHI [JP] ET AL) 14 October 2010 (2010-10-14) paragraphs [0028] - [0037], [0042], [0047]; figure 1	1,2,5,9,10,12

 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

04 February 2020

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19 February 2020

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/EP2019/085647

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	2018219123	A1	02 August 2018	CN	105870265	A	17 August 2016
				US	2018219123	A1	02 August 2018
				US	2019334057	A1	31 October 2019
				WO	2017181743	A1	26 October 2017

WO	2018061896	A1	05 April 2018	NONE			

US	2010258543	A1	14 October 2010	CN	101859728	A	13 October 2010
				JP	5444798	B2	19 March 2014
				JP	2010251359	A	04 November 2010
				US	2010258543	A1	14 October 2010
