



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 88 46 94

Classification of the application (IPC):
B41J 2/14, B41J 2/175, B41J 2/18, B41J 2/19

Technical fields searched (IPC):
B41J

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X A	US 2011242237 A1 (UEZAWA HARUHISA [JP]) 06 October 2011 (2011-10-06) * figures 2,3,5,6 *	1, 7, 9, 10 4-6, 8
X A	US 2014063132 A1 (SCHEFFELIN JOSEPH E [US] ET AL) 06 March 2014 (2014-03-06) * figures 2,3 *	1-3 4-6, 8
A	JP 2014176977 A (TOSHIBA TEC KK) 25 September 2014 (2014-09-25) * figures 5,6 *	3-6
A	US 2011181670 A1 (TSUBAKI KENGO [JP]) 28 July 2011 (2011-07-28) * figures 5,7 *	1-10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 31 October 2019	Examiner Öztürk, Serkan
------------------------------	---	----------------------------

CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| &: member of the same patent family, corresponding document | L: document cited for other reasons |

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 88 46 94

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 31-10-2019
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2011242237	A1	06-10-2011	CN	102218919 A	19-10-2011
			US	2011242237 A1	06-10-2011
US 2014063132	A1	06-03-2014	BR	112013031747 A2	13-12-2016
			CN	103619600 A	05-03-2014
			EP	2726295 A1	07-05-2014
			JP	5894668 B2	30-03-2016
			JP	2014522756 A	08-09-2014
			KR	20140048159 A	23-04-2014
			TW	201313494 A	01-04-2013
			US	2014063132 A1	06-03-2014
			WO	2013002775 A1	03-01-2013
JP 2014176977	A	25-09-2014	JP	5899139 B2	06-04-2016
			JP	2014176977 A	25-09-2014
US 2011181670	A1	28-07-2011	CN	102189806 A	21-09-2011
			EP	2347905 A2	27-07-2011
			JP	5428893 B2	26-02-2014
			JP	2011148224 A	04-08-2011
			US	2011181670 A1	28-07-2011