## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2016/003934

## A. CLASSIFICATION OF SUBJECT MATTER

D04H1/732(2012.01)i, B27N3/00(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)

B27N1/00-9/00, D04H1/00-18/04, D21B1/00-1/38, D21C1/00-11/14, D21D1/00-99/00, D21F1/00-13/12, D21G1/00-9/00, D21H11/00-27/42, D21J1/00-7/00

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 1996-2016

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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 A	JP 2015-137437 A (Seiko Epson Corp.), 30 July 2015 (30.07.2015), claims; paragraphs [0074], [0123]; fig. 1 & US 2015/0204015 A1 claims; paragraphs [0083], [0134]; fig. 1 & CN 104805721 A	1-4,7-9 5,6
Y A	JP 2003-227089 A (Mitsubishi Heavy Industries, Ltd.), 15 August 2003 (15.08.2003), claims; paragraphs [0001], [0014], [0020] (Family: none)	1-4,7-9 5,6
А	JP 52-144407 A (Mitsubishi Heavy Industries, Ltd.), 01 December 1977 (01.12.1977), (Family: none)	1-9

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	"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	
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"P" document published prior to the international filing date but later than the priority date claimed	being obvious to a person skilled in the art  "&" document member of the same patent family	
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