

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/047014

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. A61B18/12(2006.01)n, A61B34/20(2016.01)i, A61B5/0408(2006.01)i, A61B5/0478(2006.01)i, A61B5/0492(2006.01)i, A61B5/05(2006.01)i
 FI: A61B34/20, A61B5/05A, A61B5/04300J, A61B18/12
 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)

Int.Cl. A61B18/12, A61B34/20, A61B5/0408, A61B5/0478, A61B5/0492, A61B5/05

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

Published examined utility model applications of Japan	1922-1996
Published unexamined utility model applications of Japan	1971-2020
Registered utility model specifications of Japan	1996-2020
Published registered utility model applications of Japan	1994-2020

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.
A	US 2010/0030061 A1 (CANFIELD, M. R.) 04.02.2010 (2010-02-04), entire text, all drawings	1-7
A	WO 2017/209273 A1 (NATIONAL UNIVERSITY CORPORATION TOKYO MEDICAL AND DENTAL UNIVERSITY) 07.12.2017 (2017-12-07), entire text, all drawings	1-7
A	WO 2005/117695 A1 (JAPAN SCIENCE AND TECHNOLOGY AGENCY) 15.12.2005 (2005-12-15), entire text, all drawings	1-7
A	JP 2018-525041 A (GENETESIS, LLC) 06.09.2018 (2018-09-06), entire text, all drawings	1-7

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
 28.01.2020

Date of mailing of the international search report
 10.02.2020

Name and mailing address of the ISA/
 Japan Patent Office
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/JP2019/047014

US 2010/0030061 A1 04.02.2010	WO 2010/014420 A1 entire text, all drawings
WO 2017/209273 A1 07.12.2017	US 2019/0133477 A1 entire text, all drawings EP 3466333 A1 CN 109414212 A
WO 2005/117695 A1 15.12.2005	US 2008/0033312 A1 entire text, all drawings EP 1769741 A1 JP 2005-342081 A
JP 2018-525041 A 06.09.2018	US 9433363 B1 entire text, all drawings WO 2016/205731 A1 CN 107708540 A KR 10-2018-0018653 A