

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/068005

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: **10-12**
because they relate to subject matter not required to be searched by this Authority, namely:
PCT Rule 39.1(iv) – Methods for treatment of the human or animal body by therapy

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

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A. CLASSIFICATION OF SUBJECT MATTER**A61M 1/14**(2006.01)i; **F04B 43/067**(2006.01)i; **F04B 49/12**(2006.01)i; **F04B 49/14**(2006.01)i; **F04B 49/16**(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)

A61M; F04B

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.
A	US 2013006171 A1 (GRIESSMANN ERIK [DE] ET AL) 03 January 2013 (2013-01-03) paragraph [0030] - paragraph [0034] paragraph [0136] - paragraph [0140] paragraph [0171] - paragraph [0176] figure 11	1-9
A	WO 2016059614 A2 (DEBIOTECH SA [CH]) 21 April 2016 (2016-04-21) page 16, line 4 - page 19, line 26	1-9
A	WO 2013045711 A1 (FRAUNHOFER GES FORSCHUNG [DE]; GENTISCHER HARALD [DE]; BIRO DANIEL [DE]) 04 April 2013 (2013-04-04) the whole document	1-9
A	US 3204631 A (FIELDS LOUIS G) 07 September 1965 (1965-09-07) column 5, line 22 - line 43; figures 1, 2	1-9
A	US 2003136189 A1 (LAUMAN BRIAN [US] ET AL) 24 July 2003 (2003-07-24) paragraph [0132] - paragraph [0149]	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

“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

18 September 2018

Date of mailing of the international search report

28 September 2018

Name and mailing address of the ISA/EP

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/EP2018/068005

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	2013006171	A1	03 January 2013	CN	103648539	A	19 March 2014
				DE	102011105916	A1	03 January 2013
				EP	2726120	A1	07 May 2014
				JP	6161167	B2	12 July 2017
				JP	6347865	B2	27 June 2018
				JP	2014523303	A	11 September 2014
				JP	2017140437	A	17 August 2017
				US	2013006171	A1	03 January 2013
				WO	2013000569	A1	03 January 2013
				WO	2016059614	A2	21 April 2016
CN	107206146	A	26 September 2017				
EP	3206733	A2	23 August 2017				
JP	2017535323	A	30 November 2017				
US	2017368248	A1	28 December 2017				
WO	2016059614	A2	21 April 2016				
WO	2013045711	A1	04 April 2013	DE	102011114554	A1	04 April 2013
				EP	2760584	A1	06 August 2014
				WO	2013045711	A1	04 April 2013
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US	2003136189	A1	24 July 2003	DE	60226077	T2	20 May 2009
				EP	1469895	A1	27 October 2004
				JP	2006503598	A	02 February 2006
				TW	200302114	A	01 August 2003
				US	2003136189	A1	24 July 2003
				WO	03061733	A1	31 July 2003