



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 86 07 91

Classification of the application (IPC):
B01L 7/00, B01L 9/00, B01L 3/00, F04B 19/00

Technical fields searched (IPC):
B01L

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2019118109 A2 (VISCA LLC [US]) 20 June 2019 (2019-06-20) * the whole document *	1, 3-5
X	WO 2019046860 A1 (MIROCULUS INC [US]) 07 March 2019 (2019-03-07) * the whole document *	1-3, 5
X Y	US 2018304260 A1 (THOMAS DONALD J [US] ET AL) 25 October 2018 (2018-10-25) * the whole document *	10, 12 11
X	US 2009186404 A1 (KIM JAE-YOUNG [KR] ET AL) 23 July 2009 (2009-07-23) * the whole document *	10
Y	CN 110387313 A (HARBIN INST TECHNOLOGY) 29 October 2019 (2019-10-29) * the whole document *	11

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 Munich	Date of completion of the search 24 June 2024	Examiner Vlassis, Maria
---------------------------	--	----------------------------

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.



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 86 07 91

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5

Claims 1-5 directed to a system for carrying out rapid detection of pathogens comprising an enclosure having a front cover, a head assembly comprising an opening, a microchip placed within said opening, a micropump, wherein the at least one portion of the front cover and the head assembly are movable, solving the problem of enabling the loading of a microchip in the device.

2. claims: 6-9

Claims 6-9 directed to a micropump suitable for a system for carrying out rapid detection of pathogens, comprising a chassis with a tubular region encapsulated by a side wall, two grooves and a stepped portion in the side wall, a rotor and a motor shaft adapter, solving the problem of enabling the flow of a sample solution in a microchannel of a microchip.

3. claims: 10-12

Claims 10-12 directed towards a microchip for a system for carrying out rapid detection of pathogens.

4. claims: 13-15

Claims 13-15 directed towards a method of initiating the detection of pathogens in a sample by lysing it, thermally treating it in at least three different temperature zones obtaining the results and displaying them.

Only part of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims: 10-15

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 Munich	Date of completion of the search 24 June 2024	Examiner Vlassis, Maria
----------------------------------	---	-----------------------------------

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 21 86 07 91

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 24-06-2024
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
WO 2019118109 A2	20-06-2019	EP 3706906 A2	16-09-2020
		US 2020261909 A1	20-08-2020
		US 2021187502 A1	24-06-2021
		WO 2019118109 A2	20-06-2019
WO 2019046860 A1	07-03-2019	CA 3073058 A1	07-03-2019
		CN 111587149 A	25-08-2020
		CN 115582155 A	10-01-2023
		EP 3676009 A1	08-07-2020
		JP 7341124 B2	08-09-2023
		JP 2020532723 A	12-11-2020
		JP 2023169183 A	29-11-2023
		US 2019168223 A1	06-06-2019
		US 2022250078 A1	11-08-2022
		WO 2019046860 A1	07-03-2019
US 2018304260 A1	25-10-2018	AU 2018255430 A1	07-11-2019
		BR 112019020876 A2	28-04-2020
		CA 3062287 A1	25-10-2018
		CN 110869127 A	06-03-2020
		EP 3612306 A1	26-02-2020
		JP 7289792 B2	12-06-2023
		JP 2020517916 A	18-06-2020
		KR 20200015896 A	13-02-2020
		KR 20240145525 A	07-10-2024
		NZ 758378 A	25-03-2022
		RU 2019137209 A	21-05-2021
		SG 11201907936S A	27-09-2019
		TW 201842181 A	01-12-2018
		US 2018304260 A1	25-10-2018
		US 2024033733 A1	01-02-2024
		WO 2018195493 A1	25-10-2018
US 2009186404 A1	23-07-2009	KR 20090080818 A	27-07-2009
		US 2009186404 A1	23-07-2009
CN 110387313 A	29-10-2019	NONE	