



SUPPLEMENTARY PARTIAL EUROPEAN SEARCH REPORT

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

Application number:
EP 20 80 16 15

Classification of the application (IPC):
A61H 23/02, A61H 1/00, A61H 23/00, A61H 39/04

Technical fields searched (IPC):
A61H

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y	US 2013237751 A1 (ALEXANDER TAYLOR LAWRENCE [US]) 12 September 2013 (2013-09-12) * paragraphs [0057], [0058]; claims; figures *	1, 3-5, 7, 8 2, 6
X Y	US 9098114 B2 (POTTER DAVID [US]; CORKILL ANDREW NORMAN [US] ET AL.) 04 August 2015 (2015-08-04) * column 14, line 12 * * column 25, line 12 * * claims; figures *	1, 3-5, 7, 8 2, 6
E	WO 2022011251 A1 (HYPER ICE INC [US]) 13 January 2022 (2022-01-13) * claims; figures *	1, 3-5, 7, 8
Y	US 2018200141 A1 (WERSLAND JASON [US] ET AL) 19 July 2018 (2018-07-19) * claims; figures *	2, 6
Y	JP 2017514613 A (*) 08 June 2017 (2017-06-08) * paragraphs [0027] - [0029]; claims; figures *	1-8
Y	CN 107913174 A (SUZHOU SAIWEN ELECTRONIC TECH CO LTD) 17 April 2018 (2018-04-17) * pages 11,12; claims; figures *	1-8

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R. 62a, 63) has been carried out.

Claim(s) completely searchable:1-4

Claim(s) searched incompletely:5-8

Claim(s) not searched:9-15

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 18 February 2024	Examiner Shmonin, Vladimir
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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

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INCOMPLETE SEARCH

Reason for the limitation of the search:

[0001] The search has been restricted to the subject-matter indicated by the applicant in his letter of 18.12.2023 filed in reply to the invitation pursuant to Rule 62a(1) EPC, i.e. independent claims 1 and 5 (partially - only apparatus features) and dependent claims 2-4 and 6-8 (partially - only apparatus features).

[0002] The claims have to be limited to the searched subject-matter (Rule 62a(2) EPC).

[0003] It is noted, that according to Rule 137(5) EPC amended claims may not relate to subject-matter not searched in accordance with Rule 62a EPC. Consequently, the presence of this subject-matter in the description cannot be used as a basis for its re-introduction into the claims (see Guidelines H-II.6.1, see also H-II, 5 and IH-II, 5).

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 18 February 2024	Examiner Shmonin, Vladimir
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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

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**ANNEX TO SUPPLEMENTARY PARTIAL
EUROPEAN SEARCH REPORT**

 Application number:
EP 20 80 16 15

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 18-02-2024
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
US 2013237751	A1	12-09-2013	NONE	
US 9098114	B2	04-08-2015	US 2011055720 A1 WO 2011029069 A1	03-03-2011 10-03-2011
WO2022011251	A1	13-01-2022	US 2021038472 A1 US 2021330546 A1 WO 2022011251 A1	11-02-2021 28-10-2021 13-01-2022
US 2018200141	A1	19-07-2018	US 2018200141 A1 US 2019209424 A1	19-07-2018 11-07-2019
JP 2017514613	A	08-06-2017	CN 105078728 A CN 204951554 U EP 3139889 A1 JP 2017514613 A US 2017049278 A1 WO 2015169606 A1	25-11-2015 13-01-2016 15-03-2017 08-06-2017 23-02-2017 12-11-2015
CN 107913174	A	17-04-2018	CN 107913174 A CN 208525375 U US 2018168913 A1	17-04-2018 22-02-2019 21-06-2018