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HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
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(54) Title: CARGO ADD-ON DEVICE

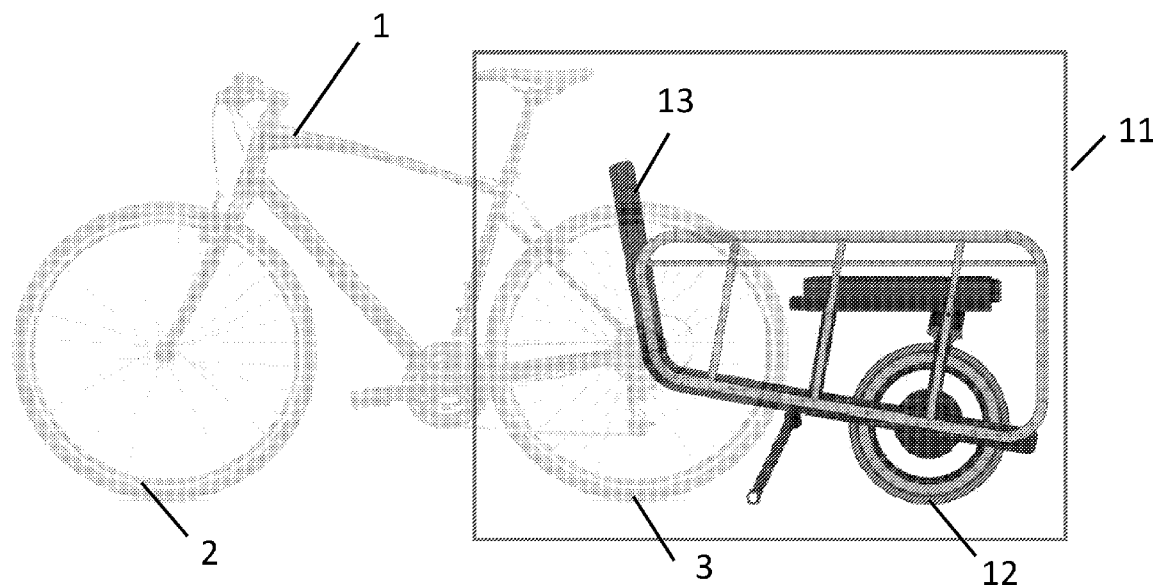


Figure 1

(57) Abstract: There is provided a cargo add-on device for attaching onto a parent vehicle, the parent vehicle having a front wheel and a rear wheel. The cargo add-on device comprises: a frame that is configured, in use, to remain substantially parallel to a plane that is perpendicular to the rear wheel axis of the parent vehicle; and a device wheel that is capable of pivoting relative to the frame. The cargo add-on device is configured to convert the parent vehicle into a cargo vehicle.

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. B62K27/14

ADD.

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)

B62K B62B

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2019/300099 A1 (THOMAS TOM S [CA]) 3 October 2019 (2019-10-03)	1 - 5
Y	paragraph [0035] - paragraph [0044]; figures 1-3,11, 11A -----	6 - 14
Y	US 9 567 020 B2 (COMMISSARIAT ENERGIE ATOMIQUE [FR]; METACAR TRANSP SYSTEMS [FR] ET AL.) 14 February 2017 (2017-02-14) column 15, line 20 - line 30 column 16 figures 1-8,12-18 -----	6 - 14
X	US 2018/370590 A1 (VAN LEEUWEN MATTHIJS [US]) 27 December 2018 (2018-12-27) paragraph [0031] - paragraph [0033]; figures 1-3 ----- - / - -	1 - 4



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

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"O" document referring to an oral disclosure, use, exhibition or other means

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"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

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Date of the actual completion of the international search

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2019/118670 A1 (VALLIER GILLES [FR] ET AL) 25 April 2019 (2019-04-25) paragraph [0049]; figure 1 -----	1-4,8
X	EP 4 095 027 A1 (MUFF ANDRE ARMANDO [CH]) 30 November 2022 (2022-11-30) figures 2b,2c -----	1,5,6
X	EP 3 971 045 A1 (NUEWIEL GMBH [DE]) 23 March 2022 (2022-03-23) paragraph [0028] - paragraph [0031]; figure 2 -----	1-4,9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2024/051539

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.:
because they relate to subject matter not required to be searched by this Authority, namely:
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).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims;; it is covered by claims Nos.:

1 - 14

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

Cargo device Steering

2. claims: 15-20

Cargo device Attachment mechanisms

3. claims: 21-35, 49-52

Cargo device driving dynamics and stability

4. claims: 36-41, 58-60

Cargo device frame construction and trolley cargo vehicles

5. claims: 42-48

Cargo device user interface

6. claims: 53-57

Cargo device safety devices

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2024/051539

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