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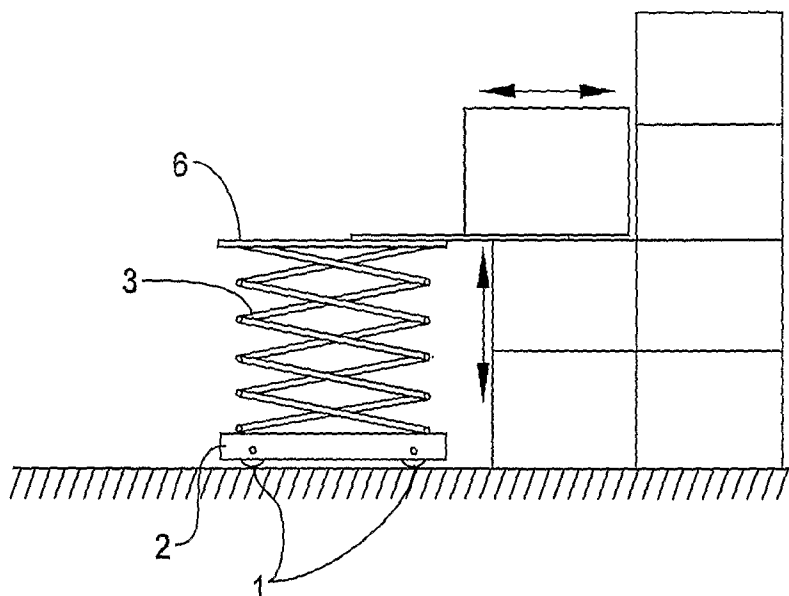
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(88) Date of publication of the international search report:
23 August 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SHUTTLES FOR TRANSPORTING GOODS



(57) Abstract: Conventional means of transporting goods, for example, in a warehouse tend to be expensive due to costs from human labor and from employing automation such as conveyors. Shuttles that are used to automatically transport goods provide a means of transporting goods that is less expensive, more efficient, and allows more rapid transportation. Shuttles, systems employing the shuttles, and methods of transporting goods using these shuttles, is disclosed.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/027680

A. CLASSIFICATION OF SUBJECT MATTER

INV. B66F9/06

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)

B66F

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 practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/042068 A1 (EHMEN RONALD [US]) 24 February 2005 (2005-02-24)	1,2,8
X	paragraphs [0070], [0071], [0088], [0089]; figures 1,33	3-5,7
Y	DE 28 18 480 A1 (BRANDMEIER FRANZ) 8 November 1979 (1979-11-08) claims 1-3	1,8
A	US 4 123 038 A (MEYERS GILBERT D) 31 October 1978 (1978-10-31) abstract figure 1	1,8
A	US 5 839 876 A (MCCARTHY CORNELIUS [US] ET AL) 24 November 1998 (1998-11-24) abstract figures 1,2	1,8
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☒ 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 document 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.
- *G* document member of the same patent family

Date of the actual completion of the international search

28 March 2007

Date of mailing of the international search report

10/07/2007

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/027680

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/098533 A (UNITED PARCEL SERVICE INC [US]) 27 November 2003 (2003-11-27) abstract page 35, lines 20-30 -----	2

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/027680

Box 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 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 fee, this Authority did not invite payment of any additional fee.
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- 8, 17- 20

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ 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: 1-8,17-20

A goods transporting shuttle comprising wheels, swivels, a lift, a goods supporting platform and one or more motors. A system and a locale comprising such a shuttle.

2. claims: 9-16

A method of automatically transporting goods from a first location to a second location by shuttle.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/027680

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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