

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 May 2010 (27.05.2010)

(10) International Publication Number  
**WO 2010/058404 A3**

(51) International Patent Classification:

**B61B 3/02** (2006.01)      **B61B 15/00** (2006.01)  
**B61B 13/04** (2006.01)

(21) International Application Number:

PCT/IL2009/001102

(22) International Filing Date:

23 November 2009 (23.11.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/117,342 24 November 2008 (24.11.2008) US

(71) Applicant (for all designated States except US): **AUTOMATE LTD.** [IL/IL]; P.O.Box 1874, 9 Yitzhak Sade Street, 30900 Zichron Yaakov (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GOLDBERG, Natanel** [IL/IL]; P.O. Box 1874, 9 Yitzhak Sade Street, 30900 Zichron Yaakov (IL).

(74) Agents: **LUZZATTO & LUZZATTO** et al.; P.O. Box 5352, 84152 Beer Sheva (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

10 September 2010

(54) Title: VEHICLE, SYSTEM AND METHOD FOR MASS TRANSIT TRANSPORTATION

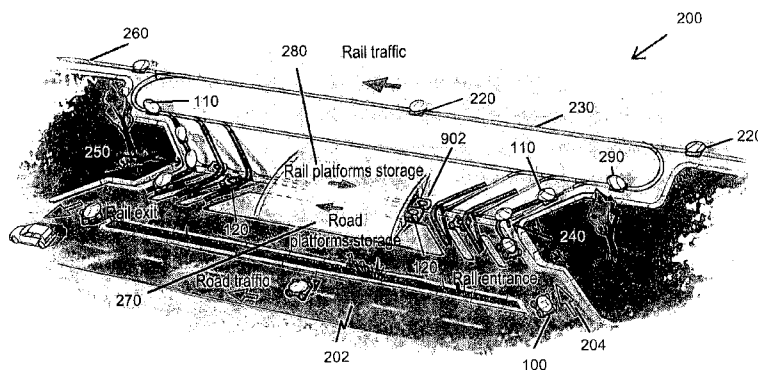


Fig. 2

(57) Abstract: The present invention provides a vehicle, system, and method for mass transit transportation, the system according to one embodiment including a plurality of passenger vehicles configured such that each passenger vehicle includes a passenger module (110) for transporting at least one passenger being attachable and detachable from a transport-base (120) and a rail-base (220). At each of a plurality of transport-rail interchange hubs (204) the passenger modules are transferred from transport-bases (120) to the rail-bases (220). At each of a plurality of rail-transport interchange hubs the passenger modules are transferred from rail-bases (220) to transport-bases (120). Each passenger vehicle is adapted to transport the at least one passenger on at least one of transport and rail without exiting the passenger module (110).



WO 2010/058404 A3

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/IL2009/001102

## A. CLASSIFICATION OF SUBJECT MATTER

INV. B61B3/02 B61B13/04 B61B15/00

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)

B61B

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, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 3 910 196 A (DENENBURG RICHARD L) 7 October 1975 (1975-10-07) column 2, line 3 - column 4, line 17  figures 1-11	28, 31-37, 44 1-27, 29, 30, 38, 45, 46
A	US 2008/015745 A1 (GAEGAUF BENEDIKT J [US] ET AL GAEGAUF BENEDIKT J [US] ET AL) 17 January 2008 (2008-01-17) abstract; figures 1-9	1-38, 44-46
A	US 7 127 999 B2 (ROANE JERRY M [US]) 31 October 2006 (2006-10-31) cited in the application abstract; figures 1-12	1-38, 44-46
	----- -/-- -----	

 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.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

12 April 2010

Date of mailing of the international search report

27/07/2010

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040,  
Fax: (+31-70) 340-3016

Authorized officer

Awad, Philippe

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/IL2009/001102

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 791 871 A (MOWLL JACK U [US]) 20 December 1988 (1988-12-20) abstract; figures 1-9b -----	1-38, 44-46
A	US 3 447 481 A (GORHAM HAROLD F) 3 June 1969 (1969-06-03) figures 1-9 -----	1-38, 44-46

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IL2009/001102

## 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.:

1-38, 44-46

### 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: 1-38, 44-46

Claims 1 to 38 and 44 to 46 are directed to a mass transit transportation system, comprising a passenger module. The special technical feature is defined by a passenger module, an uncontrolled chassis base and a controlled chassis base, wherein the passenger module is attachable to, and detachable from, both chassis. The objective problem to solve is to provide an improved public infrastructure that allows simple and easy replacement of the rail and other transport base of a vehicle.

---

2. claims: 39-43

Claims 39 to 43 are directed to a business method for private individual transportation. The special technical feature is defined by enabling a passenger to travel on both transport and rail in a passenger vehicle without exiting a the passenger module. The objective problem to solve is to provide a method for charging the passenger.

---

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IL2009/001102
---

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3910196	A	07-10-1975	NONE
US 2008015745	A1	17-01-2008	NONE
US 7127999	B2	31-10-2006	US 2005178284 A1 18-08-2005 US 2004011242 A1 22-01-2004
US 4791871	A	20-12-1988	NONE
US 3447481	A	03-06-1969	NONE