(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number
WO 2003/103995 A3

(51) International Patent Classification[7]: B60L 13/04

(21) International Application Number:
PCT/PH2003/000005

(22) International Filing Date: 20 May 2003 (20.05.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1-2002-000412 28 May 2002 (28.05.2002) PH

(71) Applicant and
(72) Inventor: **GUARDO, Jose, Jr.** [PH/PH]; No. 8, 2nd Floor V & L Building, Gorordo Avenue, Cebu City (PH).

(74) Agent: **LARA, Luis, R., Jr.**; Patentprose, 1013 EDSA, Veterans Village, Project 7, Quezon City (PH).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

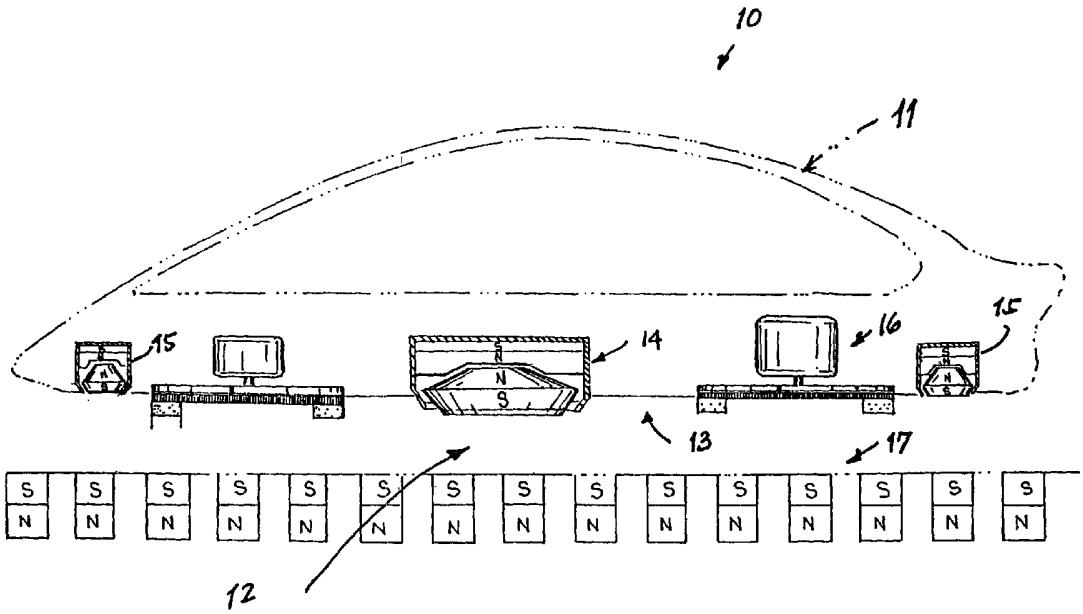
**Declaration under Rule 4.17:**
— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**
— *with international search report*

(88) Date of publication of the international search report:
1 April 2004

*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: MAGNETIC LEVITATION CAR




(57) Abstract: A magnetic levitated car comprising a car body that is made to float on a magnetic road laid on with a plurality of spaced apart magnets, at least one magnetic suspension stabilizer disposed spacedly at the bottom of said car body, and at least one electro-magnetic wheel provided at the bottom of said car body. The bottom portion of said magnetic suspension stabilizer has a polarity similar to that of the magnets laid on the road to provided repulsion therefore that will levitate said car body.

WO 2003/103995 A3

# INTERNATIONAL SEARCH REPORT

International application No.
PCT/PH03/00005

**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC7 B60L 13/04**

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)
IPC7 B60L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR, JP : IPC as above

Electronic data base consulted during the internatational search (name of data base and, where practicable, search terms used)
NPS, PAJ "magnetic", "levitate", "car"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| A | JP 01-126105 A(MATSUSHITA ELECTRIC IND CO. LTD .) 18 MAY 1989<br>See the whole document | 1-8 |
| A | JP 11-215615 A (HITACHI LTD, CENTRAL JAPAN RAILWAY CO) 06 AUGUST 1999<br>See the whole document | 1-8 |
| A | JP 09-261804 A (KIMIGAFUCHI GAKUEN) 03 OCTOBER 1997<br>See the whole document | 1-8 |

☐ 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 application or patent 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 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 | Date of mailing of the international search report |
|---|---|
| 08 DECEMBER 2003 (08.12.2003) | 08 DECEMBER 2003 (08.12.2003) |


Name and mailing address of the ISA/KR
Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea
Facsimile No. 82-42-472-7140

Authorized officer
KIM, Byeong Pil
Telephone No. 82-42-481-5653


Form PCT/ISA/210 (second sheet) (July 1998)