

(43) International Publication Date
29 November 2012 (29.11.2012)

- (51) **International Patent Classification:**
B60L 11/18 (2006.01) *B60S 5/06* (2006.01)
- (21) **International Application Number:**
PCT/IL2012/050106
- (22) **International Filing Date:**
27 March 2012 (27.03.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
PCT/IB2011/001486 20 May 2011 (20.05.2011) IB
- (71) **Applicant (for all designated States except US):** **BETTER PLACE GMBH** [CH/CH]; Industriestrasse 13C c/o Hodel Advokatur, + Notariat, 6304 Zug (CH).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **HEICHAL, Yoav** [IL/IL]; 4 Hanarkis Street, 56905 Ganey Yehuda (IL). **HERSHKOVITZ, Barak** [IL/IL]; 41 Hanoter St., 40500 Even Yehuda (IL).
- (74) **Agent:** **Svetlana SHTADLER; REINHOLD COHN AND PARTNERS**, P.O.B. 13239, 61131 Tel Aviv (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, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

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:

28 February 2013

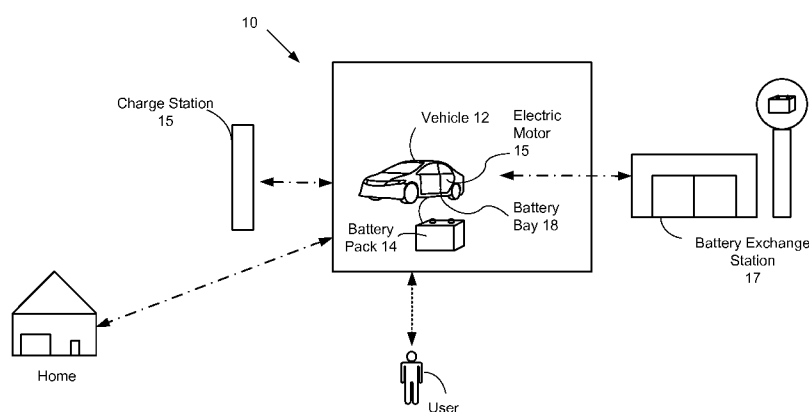
(54) **Title:** LATCHING MECHANISM FOR A VEHICLE'S BATTERY PACK

FIG. 1A

(57) **Abstract:** An attachment arrangement for attaching a battery pack (14) to a battery bay (18) of a vehicle (12). The arrangement comprises an array of latch units associated with either of the battery pack (14) and battery bay (18). The latch units are configured for engagement with a corresponding array of grip portions associated with the other of the battery pack (14) and battery bay (18). Two or more of the latch units are configured for being individually and mechanically switchable between an engaged and disengaged states by a designated tool external to both the battery pack (14) and the vehicle (12).

INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2012/050106

A. CLASSIFICATION OF SUBJECT MATTER
INV. B60L11/18 B60S5/06
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)
B60L B60S

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, 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	US 2010/112843 A1 (HEICHAL YOAV [IL] ET AL) 6 May 2010 (2010-05-06) abstract paragraph [0036] - paragraph [0039] paragraph [0123] - paragraph [0125] paragraph [0146] - paragraph [0153] figures 1-27	1-24
X	FR 2 943 970 A3 (RENAULT SAS [FR]) 8 October 2010 (2010-10-08) abstract page 3, line 15 - page 3, line 32 claims 1-11 figures 1-11	1-24
	----- -/-	



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 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

14 December 2012

Date of mailing of the international search report

02/01/2013

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

Törgyekes, Szabolcs

INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2012/050106

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2010/033881 A1 (BETTER PLACE GMBH [US]; AGASSI SHAI [US]; HEICHAL YOAV [IL]; AGASSI TA) 25 March 2010 (2010-03-25) cited in the application abstract paragraph [0111] - paragraph [0122] paragraph [0141] - paragraph [0143] figures 1-27 -----	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2012/050106

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010112843 A1	06-05-2010	US 2010112843 A1	06-05-2010
		US 2012009804 A1	12-01-2012
FR 2943970 A3	08-10-2010	NONE	
WO 2010033881 A1	25-03-2010	AT 533674 T	15-12-2011
		AU 2009293022 A1	25-03-2010
		AU 2009293024 A1	25-03-2010
		CA 2736889 A1	25-03-2010
		CA 2737620 A1	25-03-2010
		CN 102202944 A	28-09-2011
		CN 102203651 A	28-09-2011
		DK 2231447 T3	05-03-2012
		EP 2231447 A1	29-09-2010
		EP 2335106 A1	22-06-2011
		EP 2340951 A2	06-07-2011
		EP 2397383 A1	21-12-2011
		EP 2420418 A1	22-02-2012
		ES 2377804 T3	02-04-2012
		HR P20120057 T1	30-04-2012
		JP 4797119 B2	19-10-2011
		JP 2011518710 A	30-06-2011
		JP 2012006591 A	12-01-2012
		JP 2012503470 A	02-02-2012
		PT 2231447 E	22-02-2012
		SI 2231447 T1	31-07-2012
		US 2010071979 A1	25-03-2010
		US 2010141206 A1	10-06-2010
		US 2011044791 A1	24-02-2011
		US 2011297470 A1	08-12-2011
		US 2011303509 A1	15-12-2011
		WO 2010033881 A1	25-03-2010
		WO 2010033883 A1	25-03-2010