



(51) International Patent Classification:

E06C 7/44 (2006.01) *E04G 3/26* (2006.01)
E04F 11/00 (2006.01)

(21) International Application Number:

PCT/US2010/030439

(22) International Filing Date:

8 April 2010 (08.04.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/169,177 14 April 2009 (14.04.2009) US

(72) Inventors; and

(71) Applicants : HAZUKA, Edward, Richard [US/US]; 2295 Piiholo Road, Makawao, Hawaii 96768 (US). CHAFFER, Michael, Paul [US/US]; 13701 Southeast 253rd Street, Kent, Washington 98042 (US). PONTE, William, J. [US/US]; 120 Eha Iki Place, Makawao, Hawaii 96768 (US).

(74) Agents: COSTANZA, Kevin, S. et al.; Seed Intellectual Property Law Group PLLC, Suite 5400, 701 Fifth Avenue, Seattle, Washington 98104-7064 (US).

(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, 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, 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:

16 December 2010

(54) Title: UNIVERSAL PLATFORM DEVICE

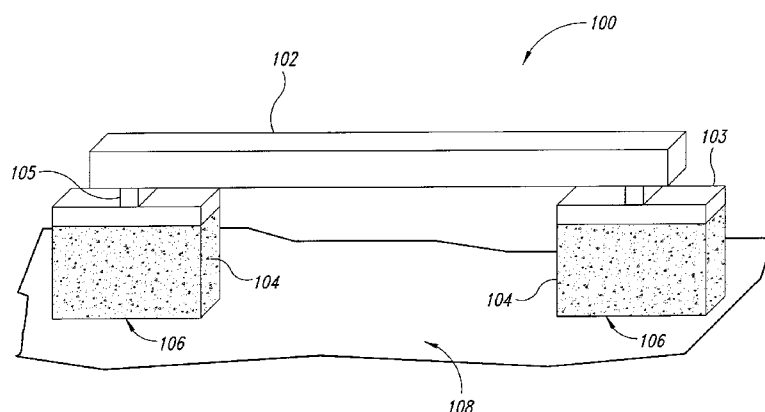


FIG. 1

(57) Abstract: A universal platform device (100, 200) includes a support member (102, 202) and at least one base member (104, 204) having a first surface configured to be positioned on a primary surface. The base member can be pivotably coupled to the support member, and includes a plurality of gaseous cells (110, 210) at least toward the first surface and flexible regions (112, 212) at least between the respective gaseous cells. The weight of the object or person being supported on platform device deforms the flexible material and the gaseous cells. Upon deformation of the flexible regions and gaseous cells, the shape of the mating portion substantially conforms to the shape of the primary surface. The gaseous cells at the mating portion expand to form numerous suction cups and the base member clasps on to the primary surface.



INTERNATIONAL SEARCH REPORT

International application No

PCT/US2010/030439

A. CLASSIFICATION OF SUBJECT MATTER

INV. E04G3/26 E06C7/44 E04F11/00
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)

E04G E06C E04F

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 570 864 A (FLORES JUAN R [US]) 5 November 1996 (1996-11-05) column 4, line 14 - column 6, line 17; figures 1-4	1-5, 10, 11
A	US 5 249 397 A (MONACO GARY J [US]) 5 October 1993 (1993-10-05) column 2, line 48 - column 4, line 60; figures 1-6	1-6, 10, 11
A	DE 20 2005 000407 U1 (AUS STRUCT SERVICES PTY LTD [AU]) 24 March 2005 (2005-03-24) page 5, left-hand column, paragraph 24 - page 6, left-hand column, paragraph 31; figure 1	1, 9-11
A	DE 44 15 540 A1 (MUELLER HANSGEORG [DE]) 9 November 1995 (1995-11-09) column 1, line 3 - line 55; figures 1-4	1, 6, 10, 11



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

14 October 2010

Date of mailing of the international search report

26/10/2010

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

Stefanescu, Radu

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2010/030439

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5570864	A	05-11-1996	NONE	
US 5249397	A	05-10-1993	NONE	
DE 202005000407	U1	24-03-2005	CA 2482342 A1 GB 2409851 A	12-07-2005 13-07-2005
DE 4415540	A1	09-11-1995	NONE	