



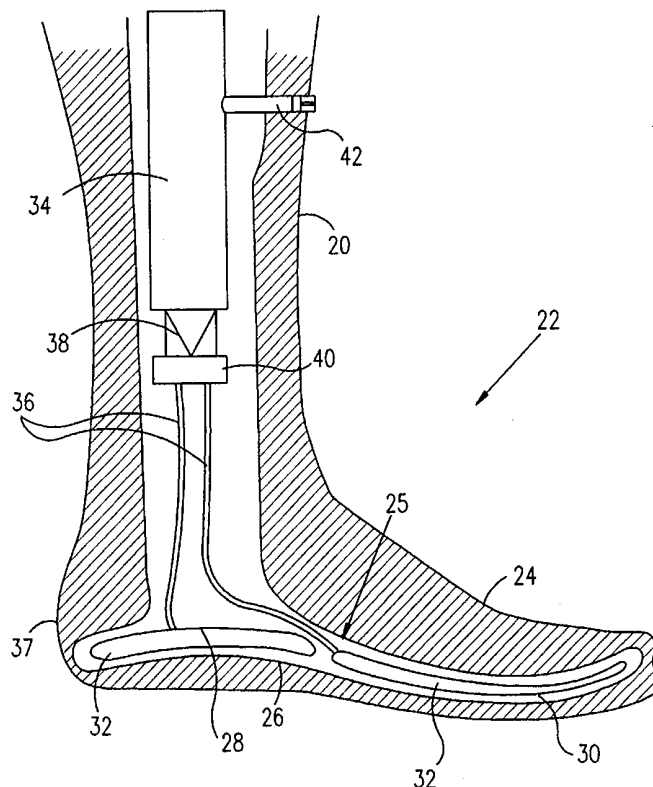
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification⁶ : A61F 2/68, 2/74</p>	<p>A3</p>	<p>(11) International Publication Number: WO 99/05991</p> <p>(43) International Publication Date: 11 February 1999 (11.02.99)</p>
<p>(21) International Application Number: PCT/IL98/00361</p> <p>(22) International Filing Date: 31 July 1998 (31.07.98)</p> <p>(30) Priority Data: 60/055,079 1 August 1997 (01.08.97) US</p> <p>(71) Applicant (for all designated States except US): ALT ARTIFICIAL LIMB TECHNOLOGY LTD. [IL/IL]; Lochamei Galipoli Street 11, 42910 Moshav Avichayil (IL).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): STEINBERG, Amiram [IL/IL]; Lochamei Galipoli Street 11, 42910 Moshav Avichayil (IL). STEINBERG, Yael [IL/IL]; Lochamei Galipoli Street 11, 42910 Moshav Avichayil (IL).</p> <p>(74) Agents: COLB, Sanford, T. et al.; Sanford T. Colb & Co., P.O. Box 2273, 76122 Rehovot (IL).</p>	<p>(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 10 June 1999 (10.06.99)</p>	

(54) Title: WALK INDUCED ENERGY ACCUMULATOR

(57) Abstract

Apparatus and methods for utilizing energy originating from walking. The apparatus includes a pump (22), which is actuated by walking movements to pump a fluid. The pump (22) may include at least one pillow (28, 30) containing the fluid. Preferably, the at least one pillow includes a pneumatic insole (25) formed of a rear upright arch (28) and a forward downward arch (30). The rear and front arches each contain a respective fluid pillow, such that during walking, the rear arch is flattened, and the front arch is bent, thereby driving fluid out of the respective pillows.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IL 98/00361

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61F2/68 A61F2/74

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)
IPC 6 A61F

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 688 065 A (WHITAKER CORP) 20 December 1995 see column 2, line 47 to column 6, line 49 see column 2, line 14-29 ---	1-3, 8, 10-15, 17-19, 24, 25, 27, 28, 31, 35, 37, 38, 41, 42, 45, 48
A	US 5 509 938 A (PHILLIPS VAN L) 23 April 1996 see column 3, line 44 - column 5, line 14 --- -/--	1, 6, 7, 16, 18-23, 26, 37, 44, 46

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Daintith, N

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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In: International Application No

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