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(74) Agents: MCCARTHY, Kevin, D. et al.; Roach Brown
McCarthy & Gruber, P.C., 1620 Liberty Building, Buffalo,
NY 14202 (US).

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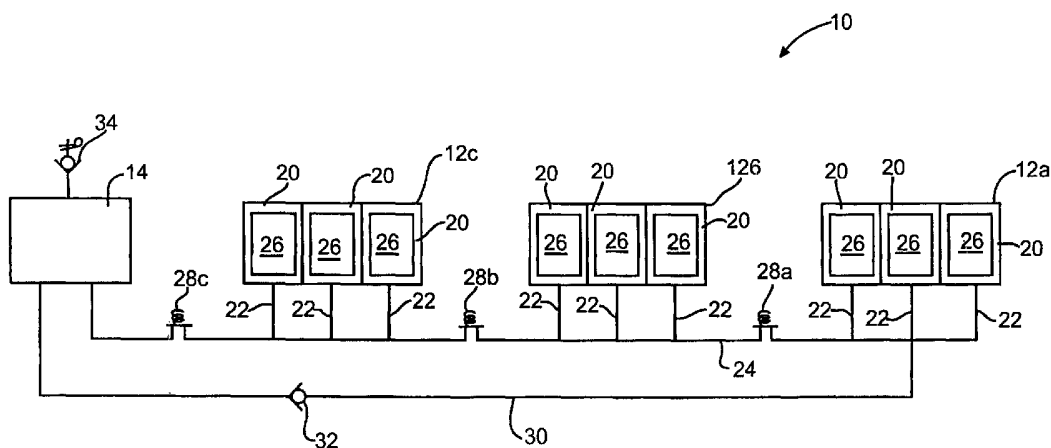
(71) Applicant: GAYMAR INDUSTRIES, INC. [US/US]; 10
Centre Drive, Orchard Park, NY 14127 (US).

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(72) Inventors: FLICK, Roland, E.; 540 Blossom Road,
Elma, NY 14059 (US). PAOLINI, Raymond, P.; 7303
Michael Road, Orchard Park, NY 14127 (US). JUSIAK,
Joel, T.; 8389 Lewis Road, Holland, NY 14080 (US).

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: SELF-ADJUSTING CUSHIONING DEVICE



(57) Abstract: A cushioning device (10) including a first fluid bladder support structure (12a) having a first surface and an opposing second surface, a second fluid bladder support structure (12b) having a first surface and an opposing second surface, and at least one fluid accumulation reservoir (14). A first conduit (24) interconnects the first bladder support structure (12a) in fluid communication with the second fluid bladder support structure (12b) and includes a first one-way valve (28a) which permits fluid flow from the first fluid bladder support structure (12a) to the second fluid bladder support structure (12b). A second conduit (24) interconnects the second fluid bladder support structure (12b) in fluid communication with the at least one fluid accumulation reservoir (14) and includes a second one-way valve (28b) which permits fluid flow from the second fluid bladder support structure (12b) to the at least one fluid accumulation reservoir (14) and which is a pressure relief valve. A third conduit (30) interconnects the at least one fluid accumulation reservoir (14) in fluid communication with the first fluid bladder support structure (12a) and includes a third one-way valve (32) which permits fluid flow from the at least one fluid accumulation reservoir (14) to the first fluid bladder support structure (12a).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/06184

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A47C 27/10

US CL : 5/710

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)

U.S. : 5/710, 713-715, 726, 732, 914

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,679,264 A (Mollura) 14 July 1987 (14.07.1987), column 3, lines 55-68, column 4 in the entirety.	44-47, 49, 50, 52, 55
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Y		48, 51, 53, 54
Y, P	US 6,564,411 B2 (Pirzada) 20 May 2003 (20.05.2003), Figs. 5A-5C, column 4 lines 58-68 and column 5 lines 1-25.	48
Y	US 1,576,211 A (O'Kane) 09 March 1926 (09.03.1926), lines 68-72.	51
Y	US 5,699,570 A (Wilkinson et al) 23 December 1997 (23.12.1997), column 8 lines 35-64.	53
Y	US 5,611,096 A (Bartlett et al) 18 March 1997 (18.03.1997), column 11 lines 2068, column 12 lines 1-61.	54
A	US 5,649,331 A (Wilkinson et al) 22 July 1997 (22.07.1997)	

☐ 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	"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
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"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	"&" document member of the same patent family

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Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Michael Trettel *V Hodge*

Telephone No. 703-308-1113