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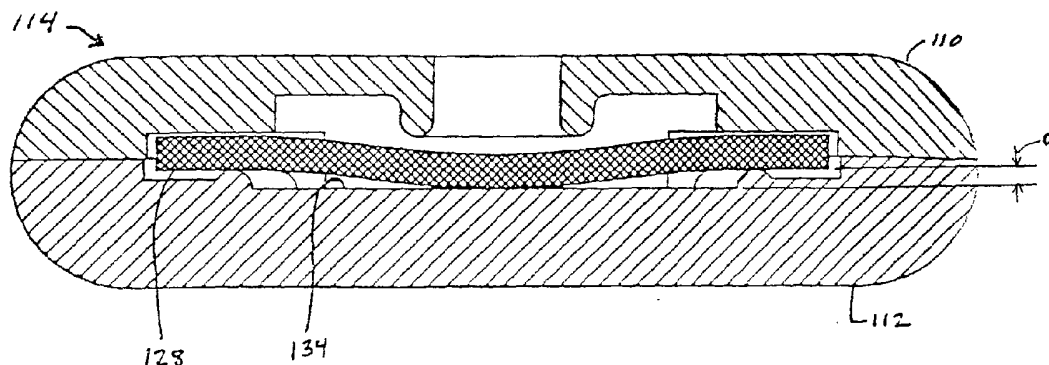
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Notes on Codes and Abbreviations" appearing at the beginning
of each regular issue of the PCT Gazette.

(54) Title: PUMP VALVE WITH CONTROLLED STROKE



(57) Abstract: A valve assembly for a pump includes a pump chamber and a pump head having complementary recesses formed therein which cooperate to define a valve compartment including a pocket and an opposed seat. A flexible valve element is disposed between the recesses and adapted to move between a closed position against the seat which prevents fluid flow and an open position away from the valve seat which permits fluid flow. The dimensions of the valve compartment are selected to limit the movement of the valve element in the open position, which increases the pump efficiency and prevents damage to the valve element and/or valve overlap.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23833

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F04B 39/10; F16K 15/16

US CL : 417/566, 571; 137/856

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. : 417/566, 571; 137/856

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 5,934,305 A (CHO) 10 August 1999 (10.08.1999), see Fig. 7.	1 and 10
A	US 6,314,990 B1 (BRABEK et al) 13 November 2001 (13.11.2001) see entire document.	1 and 10

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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