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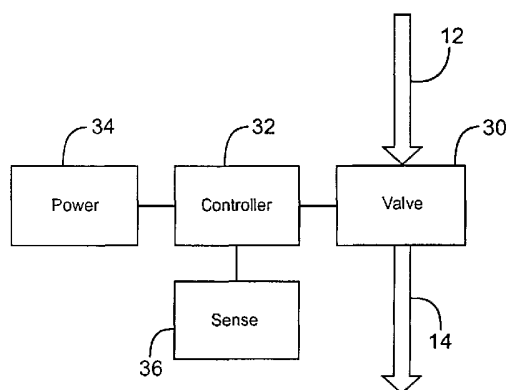
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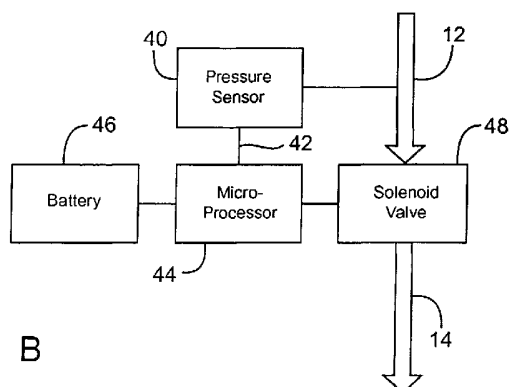
[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR CONTROLLING INTRACRANIAL PRESSURE



A

(57) Abstract: Methods and systems for lowering elevated intracranial pressure utilizing a fluid drainage controller (16) which regulates the drainage of cerebral spinal fluid based on a cardiac or other transient component of the patient's intracranial pressure. The cardiac component of the intracranial pressure increases as the accumulation of cerebral spinal fluid in the patient's subarachnoid space increases, but is not directly a function of the absolute mean or baseline intracranial pressure. Thus, control based on the cardiac component is relatively independent of patient position and the risk of over or under draining the spinal fluid is lessened.



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

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/25553

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 35/00

US CL : 604/9

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. : 604/7-9

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)

EAST: cerebrospinal, valve, transducer, pressure

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,368,556 A (LECUYER) 29 November 1994 (29.11.1994), column 2, lines 47-54; columns 3-4.	1, 7 ----- 2-6, 8
X --- Y	US 5,643,195 A (DREVET et al) 01 July 1997 (01.07.1997), columns 5-8.	1, 7 ----- 2-6, 8
X --- Y	US 5,980,480 A (RUBENSTEIN et al) 09 November 1999 (09.11.1999), column 5, lines 38-40, column 6, lines 44-67, column 7, lines 1-46.	1-7 ----- 8



Further documents are listed in the continuation of Box C.



See patent family annex.

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"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

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document member of the same patent family

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