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

(37) 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.
Published:
— with international search report

Date of publication of the international search report: 4 September 2003

Information about Correction:
Previous Correction:
see PCT Gazette No. 19/2003 of 8 May 2003, Section II

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

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 5,368,556 A (LECUYER) 29 November 1994 (29.11.1994), column 2, lines 47-54; columns 3-4.</td>
<td>1, 7</td>
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<td></td>
<td>2-6, 8</td>
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<tr>
<td>X</td>
<td>US 5,643,195 A (DREVET et al) 01 July 1997 (01.07.1997), columns 5-8.</td>
<td>1, 7</td>
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<td>X</td>
<td>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.</td>
<td>1-7</td>
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Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search: 18 October 2002 (18.10.2002)

Date of mailing of the international search report: 02 MAY 2003

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Form PCT/ISA/210 (second sheet) (July 1998)