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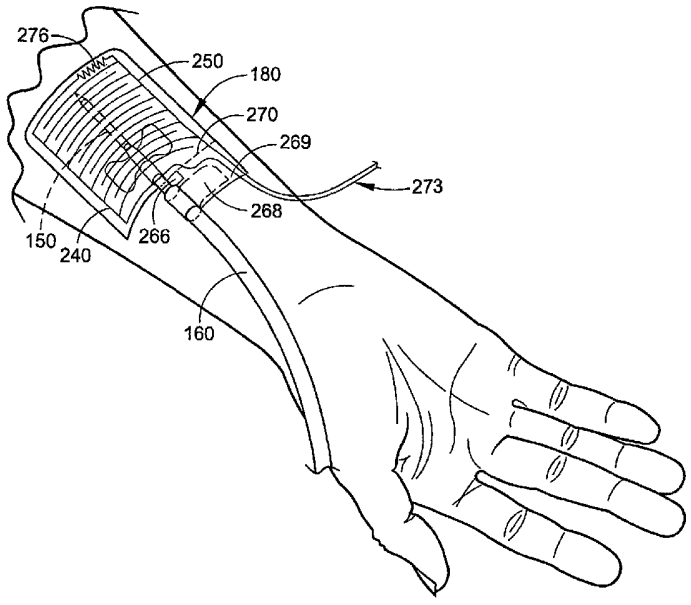
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[Continued on next page]

(54) Title: METHOD AND DEVICE FOR MONITORING LOSS OF BODY FLUID AND DISLODGMENT OF MEDICAL INSTRUMENT FROM BODY



(57) Abstract: A method of alerting medical personnel of a problem during hemodialysis includes providing an active, fail-to-se site sensor (180) for a fistula needle (150) at an access site during hemodialysis; and automatically alerting medical personnel of a problem during hemodialysis using the active, fail-to-safe site sensor during at least the following: failing of the active, fail-to-safe site sensor; insufficient powering to the active, fail-to-safe site sensor; partial fistula needle dislodging from the access site; and complete needle dislodging from the access site.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/22403

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 5/00; A61M 37/00; B01D 11/00; C02F 1/00

US CL : 600/300; 604/4.01, 5.01, 6.16; 210/645, 739

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. : Please See Continuation Sheet

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: needle or fistula, dislodgement/disconnection/disconnect/withdrawal, monitor, (blood loss)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,572,576 B2 (BRUGGER et al.) 03 JUNE 2003, ENTIRE DOCUMENT.	8, 9, 12
X	US 6,585,675 B2 (O'MAHONEY et al.) 01 JULY 2003, ENTIRE DOCUMENT.	8, 9, 12

☐ 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

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Continuation of B. FIELDS SEARCHED Item 1:
600/300; 604/4.01, 5.01, 6.16; 210/645, 739; 604/5.02-5.04, 6.08, 6.09, 6.1, 6.11; 210/600, 634, 646, 649-51, 740, 741, 744, 745, 767, 194, 195.1, 195.2, 252, 257.1, 257.2, 321.6, 321.71, 321.72; 73/37, 38, 73; 128/905