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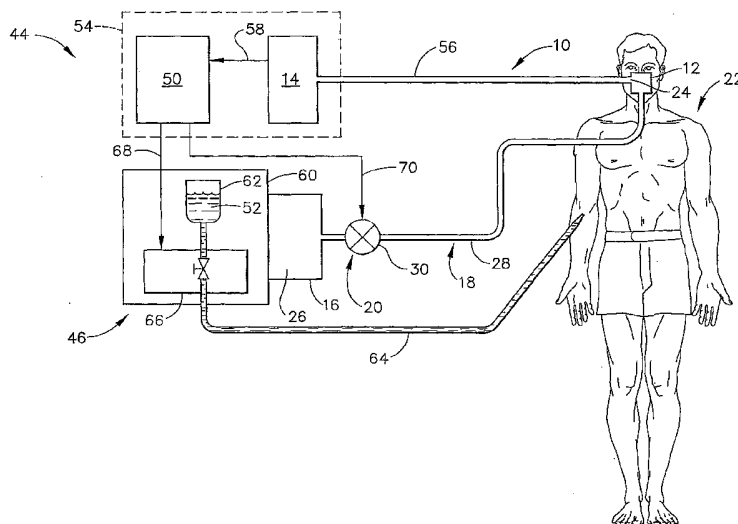
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(54) Title: CANNULA ASSEMBLY AND MEDICAL SYSTEM EMPLOYING A KNOWN CARBON DIOXIDE GAS CON-
CENTRATION



(57) Abstract: A cannula assembly and a medical system. The cannula assembly includes a cannula, a capnometer, a reservoir, a pathway, and a barrier. The cannula is positionable on the face of a patient. The capnometer measures carbon dioxide gas concentration and is operably connected to the cannula. The reservoir is adapted for containing a known concentration of carbon dioxide gas. The pathway connects carbon dioxide gas in the reservoir with the capnometer. The barrier has a first state preventing gas flow along the pathway and has a second state allowing gas flow along the pathway. The medical system includes the cannula assembly and includes a drug delivery assembly. The drug delivery assembly is adapted for administering a drug to the patient according to a drug delivery schedule based at least in part on the carbon dioxide gas concentration of the exhaled air of the patient as measured by the capnometer.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 128/203.12, 203.14, 205.27, 205.28, 206.11, 207.18, 910, 914; 600/300, 301, 529, 532, 538, 543

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. : 128/203.12, 203.14, 205.27, 205.28, 206.11, 207.18, 910, 914; 600/300, 301, 529, 532, 538, 543

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 5,320,093 A (RAEMER) 14 June 1994, figure 1	1-4, 10, 12, 19
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Y		11, 13, 20



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See patent family annex.

* Special categories of cited documents:		"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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"P"	document published prior to the international filing date but later than the priority date claimed		

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