(71) Applicant: ETHICON ENDO-SURGERY, INC. [US/US]; 4545 Creek Road, Cincinnati, OH 45242 (US).

(72) Inventors: HICKLE, Randall; 2404 Topeka Avenue, Lubbock, TX 79407 (US). GUSTAFSON, Michael; 10344 Stable Hand Drive, Cincinnati, OH 45242 (US).

(54) Title: DRUG DELIVERY SYSTEM AND METHOD

(57) Abstract: A drug delivery system is provided for use in a sedation and analgesia system. The drug delivery system can include a first bolus interface (20), a second bolus interface (25), wherein the second bolus interface (25) appears after the first bolus interface (20), a third bolus interface (60) wherein the third bolus interface (60) can appear after the second bolus interface (25), and a drug delivery display. The first bolus interface (20) asks a user if he or she wants to give the patient a bolus from the drug delivery. If the user answers yes, then the second bolus interface (25) asks the user to confirm the bolus. The third bolus interface (60) can appear if the bolus is outside a predetermined range flagging the user that the bolus is outside a specific range asking for confirmation to continue. The drug delivery display can show the drug delivery or any other patient statistics.
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

<table>
<thead>
<tr>
<th>IPC(7)</th>
<th>A61M 31/00</th>
</tr>
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<td>US CL</td>
<td>604/67</td>
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</table>

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)

#### 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>A</td>
<td>US 5,685,844 A (Martilla) 11 November 1997 (11.11.1997), See entire patent.</td>
<td>1-16</td>
</tr>
<tr>
<td>A</td>
<td>US 5,078,683 A (Sanoff et al.) 07 January 1992 (07.01.1992), See entire patent.</td>
<td>1-16</td>
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<tr>
<td>A</td>
<td>US 4,925,444 A (Orkin et al.) 15 May 1990 (15.05.1990), See entire patent.</td>
<td>1-16</td>
</tr>
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</table>

Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search

29 July 2004 (29.07.2004)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Date of mailing of the international search report

20 AUG 2004

Authorized officer

Manuel Mendez

Telephone No. 703-308-2221

Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 1:
604/65-67, 890.1, 891.1, 892.1
128/DIG. 12, DIG. 13