Title: MULTIPLE DRUG INJECTION APPARATUS

Abstract: A fluid dispensing device (10), particularly suited to medicine but also having many other applications. The device (10) selectively dispenses any of one or more fluids contained within the device (10). Adapters on the dispensing end of the unit permit the device to be effectively used for intra-venous, intra-dermal or intra-muscular injections, gasses, colloids, gels, liquids or other fluids. Adapters on the head (100) of the unit permit the device to be used with or without electrical power and to varying degrees of automatic control for timing, sequence, volume of fluid dispensed and other features. A preferred embodiment utilizes a pre-formatted, disposable or re-useable cartridge (522) of several drugs suited for a particular medical purpose.

Declarations under Rule 4.17:
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Ui))
— of inventorship (Rule 4.17(iv))
— with international search report

(88) Date of publication of the international search report: 2 October 2008
### A CLASSIFICATION OF SUBJECT MATTER

**IPC(8) - A61 M 5/00 (2008.04)**

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)

**IPC(8) - A61M 5/00 (2008.04)**

**USPC - 604/246**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**USPC - 604/19, 246, 247**

(Text Search)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (PGPB, USPT, USOC, EPAB, JPAB), DialogPRO (Engineer PM) and Google Scholar

Search Terms: drug, inject, injection, injecting, dispens$, liquid, fluid, drug injection, multiple, manifold, cartridge, vial, vessel, plunger, port, flush, selective, select, pneumatic cylinder, electronic linear actuator, spmg, computer

### 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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 2002/0055707 A1 (SLATE et al.) 09 May 2002 (09 05 2002) para [0013], [0014], [0016], [0020]</td>
<td>2, 12 and 19</td>
</tr>
</tbody>
</table>

### I Further documents are listed in the continuation of Box C

A: Special categories of cited documents

### Date of the actual completion of the international search

20 May 2008 (20 05 2008)

### Date of mailing of the international search report

02 JUN 2008

### Name and mailing address of the ISA/US

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Form PCT/ISA/2 10 (second sheet) (April 2007)