Title: APPARATUS FOR ADMINISTERING INTERMITTENT PERCUSSIVE VENTILATION AND UNITARY BREATHING HEAD ASSEMBLY FOR USE THEREIN

Abstract: A unitary breathing head device for administering intermittent percussive ventilation to a patient having an airway and for use with an IPV device (16) having a source of continuous gas flow and having a source of pulsed gases comprising a combination injector and exhalation valve assembly (12) comprising a main body (26) having an airway port for communication with the airway of the patient and having proximal (27) and distal extremities (28) and a flow passage (29) extending from the proximal extremity to the distal extremity. The main body has a depending portion forming a plenum chamber (82) in communication with the flow passage in the main body. A nebulizer (13) is removably secured to the depending portion of the main body and has a nebulizer chamber in communication with the plenum chamber. The depending portion of the main body and the nebulizer form a handle adapted to be gripped by the hand of the patient holding the breathing head assembly.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 16/00
US CL. : 128/204.18,204.21,204.23204.24,204.29,205.18
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. : 128/204.18,204.21,204.23204.24,204.29,205.18

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)
Please See Continuation Sheet

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>Y</td>
<td>US 5,862,802 A (Bird) 26 January 1999, see entire document.</td>
<td>1, 8</td>
</tr>
<tr>
<td>A</td>
<td>US 6,067,984 A (Piper) 30 May 2000, see entire document.</td>
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<td>US 5,119,807 A (Roberts) 9 June 1992, see entire document.</td>
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<td>A</td>
<td>US 4,462,397 A (Suzuki) 31 July 1984, see entire document.</td>
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</tr>
<tr>
<td>A</td>
<td>US 4,323,064 A (Hoenig et al) 6 April 1982, see entire document.</td>
<td>1, 8</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C. | See patent family annex.

Date of the actual completion of the international search: 22 July 2002 (22.07.2002)

Name and mailing address of the ISA/US
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Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 3:
EAST

intermittent percussive ventilator nebulizer venturi exhalation valve