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[Continued on next page]

(54) **Title:** SINGLE NASAL PRONG NASAL CANNULA

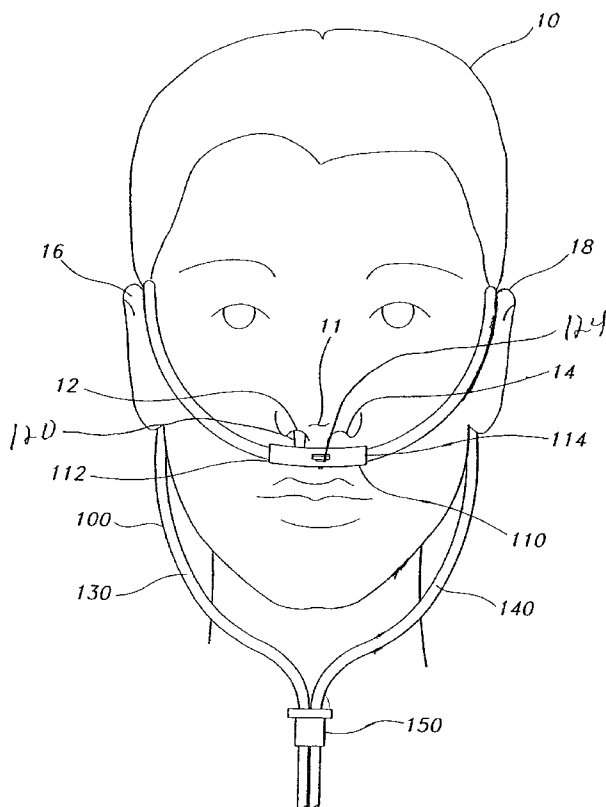


FIG. 1

(57) **Abstract:** A device and system (60) for delivering breathing gas to a patient (10) is disclosed. The device includes a single nasal prong (120) insertable into a nare (12). The single nasal prong is sized to allow gas passage between the single nasal prong and the nare. The device also includes a lumen (130) in fluid communication with the single nasal prong. A method of delivering breathing gas to the patient is also disclosed.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61M16/06

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)
A61M

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 practical, search terms used)

EPO-Internal , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	EP 1 695 732 A (FISHER & PAYKEL HEALTHCARE LTD [NZ]) 30 August 2006 (2006-08-30) page 2, paragraphs 9,10	1-6, 9-11
Y	page 3, paragraph 21 - page 4, paragraph 24; figures 1-4 page 5, paragraph 37 -----	8
X	EP 1 342 484 A (BOC GROUP PLC [GB]) 10 September 2003 (2003-09-10) page 2, paragraphs 8,13 page 3, paragraph 21	1-4 ,6, 7, 10
Y	figures 1,2 -----	8
X	US 2006/130840 A1 (PORAT RON [IL] ET AL) 22 June 2006 (2006-06-22) page 3, paragraph 39 - page 4, paragraph 51; figures 4A-6C -----	1-7 ,10
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☒ 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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¹X¹ document of particular relevance the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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Date of the actual completion of the international search

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 3 802 431 A (FARR J) 9 April 1974 (1974-04-09) column 4, lines 27-52 figures 3,4 -----	8
A	US 4 273 124 A (ZIMMERMAN J EARL) 16 June 1981 (1981-06-16) column 3, line 23 - column 5, line 15 figures 1-6 -----	1-11
P,X	WO 2007/111935 A (VAPOTHERM INC [US]; NILAND WILLIAM F [US]) 4 October 2007 (2007-10-04) the whole document -----	1-7,10, 11
E	WO 2008/019294 A (RIC INVESTMENTS LLC [US]) 14 February 2008 (2008-02-14) page 39, paragraph 192 - page 41, paragraph 205; figures 29-33 -----	1-4,6,7, 10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/023796

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.. 12- 18
because they relate to subject matter not required to be searched by this Authority, namely.
Rule 39. K iv) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos..
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows-

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.-
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.-

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/023796

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