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(71) Applicants:
- **University of Florida Research Foundation, Inc.**
  Gainesville, FL 32611 (US)
- **Beta Biomed Services, Inc.**
  Rowlett, TX 75088 (US)

(72) Inventors:
- **Melker, Richard**
  Gainesville, FL Florida 32605 (US)
- **Gravenstein, Joachim**
  Gainesville, FL Florida 32605 (US)
- **Worley, George**
  Garland, TX Texas 75044 (US)

(74) Representative: **Papa, Elisabetta et al**
Società Italiana Brevetti S.p.A
Piazza di Pietra, 39
00186 Roma (IT)

(54) Specially configured nasal pulse oximeter

(57) The present invention relates to novel nasal pulse oximeter probes that are configured to be placed across the septum of the nose. These probes are fabricated to provide signals to obtain arterial oxygen saturation and other photoplethysmographic data. The present invention also relates to a combined nasal pulse oximeter probe/nasal cannula. The present invention also relates to other devices that combine a pulse oximeter probe with a device supplying oxygen or other oxygen-containing gas to a person in need thereof, and to sampling means for exhaled carbon dioxide in combination with the novel nasal probe. In certain embodiments, an additional limitation of a control means to adjust the flow rate of such gas is provided, where such control is directed by the blood oxygen saturation data obtained from the pulse oximeter probe.

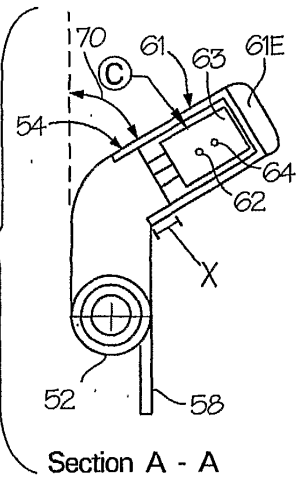

FIGURE 2C

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EUROPEAN SEARCH REPORT

Application Number
EP 12 16 7052

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Place of search	Date of completion of the search	Examiner
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CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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A : technological background
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T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 12 16 7052

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	特殊配置的鼻脉冲血氧仪		
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[标]申请(专利权)人(译)	佛罗里达大学研究基金会有限公司 BETA生物医学服务		
申请(专利权)人(译)	佛罗里达州研究基金会，Inc.的大学. BETA BIOMED SERVICES，INC.		
当前申请(专利权)人(译)	佛罗里达州研究基金会，Inc.的大学. BETA BIOMED SERVICES，INC.		
[标]发明人	MELKER RICHARD GRAVENSTEIN JOACHIM WORLEY GEORGE		
发明人	MELKER, RICHARD GRAVENSTEIN, JOACHIM WORLEY, GEORGE		
IPC分类号	A61B5/08 A61B5/1455 A61M16/06 A61B5/00 A61B5/083 A61B5/087		
CPC分类号	A61B5/6819 A61B5/0816 A61B5/14551 A61B5/7278 A61M16/0666 A61M16/0672 A61M16/085 A61M2202/0208 A61M2202/03 A61M2205/0266 A61M2210/0618 A61M2210/0625 A61M2210/0643 A61M2230/205 A61M2230/432		
审查员(译)	VANDERPERREN，YVES		
优先权	10/749471 2003-12-30 US 60/600548 2004-08-11 US 10/751308 2004-01-02 US		
其他公开文献	EP2486850B1 EP2486850A2		
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摘要(译)

本发明涉及新颖的鼻脉冲血氧计探针，其被配置成横跨鼻子的隔膜放置。制造这些探针以提供信号以获得动脉血氧饱和度和其他光电容积描记数据。本发明还涉及组合的鼻脉冲血氧计探针/鼻插管。本发明还涉及将脉冲血氧计探针与向有需要的人供应氧气或其他含氧气体的装置组合的其他装置，以及与新型鼻探针组合的用于呼出二氧化碳的取样装置。在某些实施方案中，提供了控制装置的另外限制，以调节这种气体的流速，其中这种控制由从脉搏血氧计探针获得的血氧饱和度数据指导。

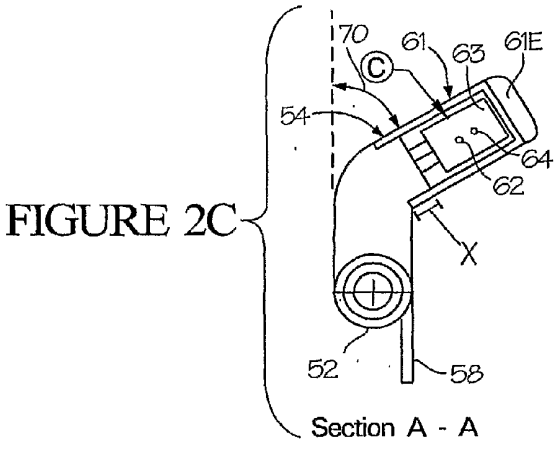

FIGURE 2C