

(12) UK Patent Application (19) GB (11) 2629311 (13) A

(43) Date of Reproduction by UK Office 23.10.2024

(21) Application No: 2410624.7
(22) Date of Filing: 23.12.2022
Date Lodged: 19.07.2024

(30) Priority Data:
(31) 63265954 (32) 23.12.2021 (33) US

(86) International Application Data:
PCT/IB2022/062713 En 23.12.2022

(87) International Publication Data:
WO2023/119240 En 29.06.2023

(51) INT CL:
A61M 16/12 (2006.01) A61M 16/00 (2006.01)
A61M 16/10 (2006.01) A61M 16/16 (2006.01)
A61M 16/20 (2006.01)

(56) Documents Cited:
WO 2020/243958 A1 WO 2020/197414 A1
WO 2015/183107 A1 US 20190275273 A1
US 20180093063 A1 US 20160367779 A1
US 20160287824 A1 US 20160082220 A1

(58) Field of Search:
INT CL A61M
Other: Google Patents, Google Scholar, Espacenet, PATENW

(71) Applicant(s):
Fisher & Paykel Healthcare Limited
15 Maurice Paykel Place, East Tamaki, 2013 Auckland,
New Zealand (including the Cook Islands,
Niue and Tokelau)

(72) Inventor(s):
Cameron John Brewster
Edward John Evans
Arjen David Kat
Bruce Gordon Holyoake
Gareth Thomas McDermott
Cameron Leslie Matthews
Hannah Maree Matthews
Evan Anthony Maunder
Winnie Yong Jiang-Foo

(74) Agent and/or Address for Service:
Forresters IP LLP
Port of Liverpool Building, Pier Head, LIVERPOOL,
L3 1AF, United Kingdom

(54) Title of the Invention: **Respiratory support system**
Abstract Title: **Respiratory support system**

(57) A device for providing respiratory gases comprises a blower configured to receive a first gas from a first gas flow path and generate a flow of a first gas provided through a first gases outlet of the blower; a second gas flow path configured to receive a flow of a second gas and provide the flow of the second gas through a second gases outlet; and a mixing chamber configured to receive a flow of the first gas from the first gases outlet and a flow of the second gas from the second gases outlet. The received gases are configured to mix in the mixing chamber to form a mixed gas. The received gases are configured to travel in a mixing flow direction in the mixing chamber towards a mixed gases inlet, wherein mixed gas exits the mixing chamber via the mixed gases inlet providing flow to a mixed gas flow path.

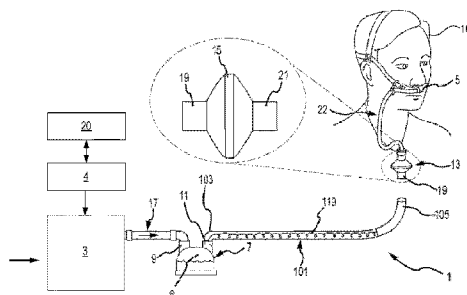


FIG. 1

GB 2629311 A