

Title (en)

A TWO-STAGE SYSTEM AND METHOD FOR OXYGENATING AND REMOVING CARBON DIOXIDE FROM A PHYSIOLOGICAL FLUID

Title (de)

ZWEISTUFIGES SYSTEM UND VERFAHREN ZUR SAUERSTOFFANREICHERUNG UND ENTFERNUNG VON KOHLENDIOXID AUS EINER PHYSIOLOGISCHEN FLÜSSIGKEIT

Title (fr)

SYSTÈME À DEUX ÉTAPES ET PROCÉDÉ D'OXYGÉNATION ET D'EXTRACTION DU DIOXYDE DE CARBONE D'UN FLUIDE PHYSIOLOGIQUE

Publication

**EP 2673039 A4 20180307 (EN)**

Application

**EP 11858232 A 20110210**

Priority

US 2011000236 W 20110210

Abstract (en)

[origin: WO2012108855A1] A two-stage system for oxygenating and removing carbon dioxide from a physiological fluid, including: a primary exchange module configured to receive a gas having oxygen therein and a carrier fluid having carbon dioxide therein. The primary exchange module is configured to transfer oxygen from the gas to the carrier fluid and transfer carbon dioxide from the carrier fluid to the gas to create an oxygen loaded carrier fluid and a carbon dioxide load gas. A secondary exchange module is configured to receive the oxygen loaded carrier fluid and a physiological fluid having the carbon dioxide therein. The secondary exchange module is configured to transfer the oxygen from the oxygen loaded carrier fluid to the physiological fluid and transfer carbon dioxide from the physiological fluid to the carrier fluid to create an oxygen loaded physiological fluid.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [XY] EP 0934751 A1 19990811 - INST POLYMERFORSCHUNG DRESDEN [DE], et al
- [Y] EP 1714691 A1 20061025 - NIPRO CORP [JP]
- [Y] US 2004009096 A1 20040115 - WELLMAN PARRIS S [US]
- See also references of WO 2012108855A1

Designated contracting state (EPC)

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