Title (en)

VASODILATOR ELUTING DYNAMIC BLOOD HANDLING DEVICES WITH A SPECIFIC POLYPHOSPHAZENE COATING AND METHODS FOR THEIR MANUFACTURE AND USE

Title (de)

EINEN VASODILATATOR FREISETZENDE DYNAMISCHE BLUTBEHANDLUNGSVORRICHTUNGEN MIT EINER SPEZIELLEN POLYPHOSPHAZEN-BESCHICHTUNG UND VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

DISPOSITIFS DE MANIPULATION DE SANG DYNAMIQUE À ÉLUTION DE VASODILATATEUR, REVÊTUS D UNE COUCHE SPÉCIFIQUE DE POLYPHOSPAZÈNE, PROCÉDÉS DE FABRICATION ET D' UTILISATION ASSOCIÉS

Publication

EP 2219701 A2 20100825 (EN)

Application

EP 07875263 A 20071031

Priority

US 2007083192 W 20071031

Abstract (en)

[origin: WO2009110858A2] The present invention is directed to medical devices in which flow is channeled of blood and blood products for the purpose of effecting a chemical exchange to remove desired chemicals from the blood or blood products, and to impart nitric oxide, other smooth muscle relaxant compounds, or other desired chemicals to the blood or blood products to achieve vascular dilatation, reduce adverse reactions, reduce thrombosis, reduce red blood cell injuries, and improve blood handling capabilities. In the present invention, such chemical exchanges occur over semipermeable membranes associated with channeled flow of blood and blood products. Various embodiments of the present invention thus apply to the clinical settings for filters, cannulae, tubing, and blood handling components for dynamic blood handling, filtering, and processing devices including, but not limited to, cardiopulmonary bypass pumps, left ventricular assist devices, artificial hearts, ECMO devices, renal or hepatic hemodialysis systems, and hemofiltration systems.

IPC 8 full level

A61L 33/06 (2006.01); **A61J 1/05** (2006.01)

CPC (source: EP)

A61L 29/085 (2013.01)

Citation (search report)

See references of WO 2009110858A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2009110858 A2 20090911; **WO 2009110858 A3 20091029**; EP 2219701 A2 20100825

DOCDB simple family (application)

US 2007083192 W 20071031; EP 07875263 A 20071031