

Title (en)

ELECTRICALLY CONDUCTIVE METHODS AND SYSTEMS FOR TREATMENT OF BLOOD AND OTHER BODY FLUIDS AND/OR SYNTHETIC FLUIDS WITH ELECTRIC FORCES

Publication

EP 0511331 A4 19930728 (EN)

Application

EP 91917874 A 19910712

Priority

US 61580090 A 19901116

Abstract (en)

[origin: WO9208536A1] A new process and system for treatment of blood or other body fluids from a donor to a recipient or storage receptacle or in a recycling system using novel electrically conductive treatment vessels for treating blood or other body fluids with electric field forces of appropriate electric field strength to provide electric current flow through the blood or other body fluids at a magnitude that is biologically compatible but is sufficient to render the bacteria, viruses, and/or fungus ineffective to infect normally healthy cells while maintaining the biological usefulness of the blood or other body fluids. For this purpose the low voltage electric potentials applied to the treatment vessel should be of the order of from about 0.2 to 12 volts and should produce current flow densities of from one microampere per square millimeter of electrode area exposed to the fluid being treated to about one milliamperere per square millimeter. Treatment time within this range of parameters may range for a period of time from about one minute to about 12 minutes.

IPC 1-7

B01D 21/00

IPC 8 full level

A61L 2/00 (2006.01); **A61L 2/02** (2006.01); **A61M 1/00** (2006.01); **A61M 1/36** (2006.01)

CPC (source: EP US)

A61L 2/0011 (2013.01 - EP); **A61L 2/02** (2013.01 - EP); **A61M 1/36** (2013.01 - EP US); **A61M 1/3603** (2014.02 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 9208536 A1 19920529; AU 8725491 A 19920611; CA 2072888 A1 19920517; EP 0511331 A1 19921104; EP 0511331 A4 19930728; GB 2256439 A 19921209; GB 9215050 D0 19920916; JP H05504503 A 19930715

DOCDB simple family (application)

US 9104938 W 19910712; AU 8725491 A 19910712; CA 2072888 A 19910712; EP 91917874 A 19910712; GB 9215050 A 19920715; JP 51659491 A 19910712