Title (en)

POROUS MEMBRANES HAVING A POLYMERIC COATING AND METHODS FOR THEIR PREPARATION AND USE

Title (de)

PORÖSE MEMBRANEN MIT EINER POLYMERBESCHICHTUNG SOWIE VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

MEMBRANES POREUSES À REVÊTEMENT POLYMÈRE ET LEURS PROCÉDÉS DE PRÉPARATION ET D'UTILISATION

Publication

EP 2797680 A1 20141105 (EN)

Application

EP 12863951 A 20121227

Priority

- US 201113339960 A 20111229
- US 201113339996 A 20111229
- US 201113340052 A 20111229
- US 2012071693 W 20121227

Abstract (en)

[origin: WO2013101855A1] A modified porous membrane comprising a polymer coating grafted to a porous membrane is described. The polymer coatings grafted to the porous membranes generally comprise a polymer of variable length of an electron beam (e-beam) reactive moiety, designated "poly-(A)x," a linkage group that forms a bond between the between the poly-(A)x, and a functional B group available to react with a chemical group on a biomolecule, wherein the polymer coating on the porous membrane facilitates the immobilization of a biomolecule, such as DNA, RNA, a protein, and an antibody, on the porous membrane. The compositions find use in immunoassays, in vitro diagnostic tests, point of care tests, techniques for the isolation of a biomolecule from a biological sample, and other methods that require the immobilization of a biomolecule on a porous membrane. Methods of making these modified porous membranes are also disclosed.

IPC 8 full level

B01D 71/06 (2006.01); **B01D 67/00** (2006.01)

CPC (source: EP US)

B01D 67/009 (2013.01 - EP); **B01D 67/00931** (2022.08 - EP US); **B01D 69/144** (2013.01 - EP); **B01D 71/20** (2013.01 - EP); **G01N 33/54353** (2013.01 - EP); B01D 2323/38 (2013.01 - EP)

Cited by

EP2797679A4

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013101855 A1 20130704; CN 104136106 A 20141105; EP 2797680 A1 20141105; EP 2797680 A4 20151216

DOCDB simple family (application)

US 2012071693 W 20121227; CN 201280070836 A 20121227; EP 12863951 A 20121227