

Title (en)  
SEPARATION OF MICROMOLECULES

Title (de)  
TRENNUNG VON MIKROMOLEKÜLEN

Title (fr)  
SEPARATION DE MICROMOLECULES

Publication  
**EP 1284808 A4 20030702 (EN)**

Application  
**EP 01923390 A 20010417**

Priority  
• AU 0100433 W 20010417  
• AU PQ691400 A 20000414

Abstract (en)  
[origin: CA2405027A1] An electrophoretic separation apparatus for separating micromolecules, the apparatus comprising: (a) a cathode; (b) an anode disposed relative to the cathode so as to be adapted to generate an electric field in an electric field area therebetween upon application of a voltage potential between the cathode and the anode; (c) a separation membrane disposed in the electric field area; (d) a first restriction membrane disposed between the cathode and the separation membrane so as to define a first interstitial volume therebetween; (e) a second restriction membrane disposed between the anode and the separation membrane so as to define a second interstitial volume therebetween; and (f) means adapted to provide a sample constituent in a selected one of the first and second interstitial volumes; wherein upon application of the voltage potential, a selected separation product is removed from the sample constituent, through the separation membrane, and provided to the other of the first and second interstitial volumes, wherein a micromolecule is capable of being retained in at least one of the interstitial volumes.

IPC 1-7  
**B01D 57/02**; **C25B 7/00**; **G01N 27/26**; **G01N 27/447**

IPC 8 full level  
**G01N 1/10** (2006.01); **B01D 57/02** (2006.01); **B01D 61/18** (2006.01); **B01D 61/46** (2006.01); **B01D 71/40** (2006.01); **B03C 5/00** (2006.01); **C25B 1/00** (2006.01); **C25B 5/00** (2006.01); **C25B 7/00** (2006.01); **C25B 13/08** (2006.01); **G01N 27/26** (2006.01); **G01N 27/40** (2006.01); **G01N 27/447** (2006.01)

Citation (search report)  
• [X] GB 2118975 A 19831109 - NISHIZAWA HIDEYUKI  
• [X] US 3989613 A 19761102 - GRITZNER GERHARD  
• [X] US 3870617 A 19750311 - BOURAT GUY  
• See references of WO 0178876A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
CA 2405027 A1 20011025; EP 1284808 A1 20030226; EP 1284808 A4 20030702; JP 2003531286 A 20031021

DOCDB simple family (application)  
CA 2405027 A 20010417; EP 01923390 A 20010417; JP 2001576170 A 20010417