

Title (en)  
MULTI-COMPARTMENT ELECTROPHORESIS

Title (de)  
MULTI-KOMPARTIMENT-ELEKTROPHORESE

Title (fr)  
APPAREIL D'ELECTROPHORESE A PLUSIEURS COMPARTIMENTS

Publication  
**EP 1230258 A1 20020814 (EN)**

Application  
**EP 00974180 A 20001114**

Priority  
• AU 0001391 W 20001114  
• AU PQ405899 A 19991115  
• AU PQ872700 A 20000712

Abstract (en)  
[origin: WO0136449A1] A novel multi-compartment electrolyser design is used to prefractionate complex protein mixtures, for use prior to the implementation of 2-D maps. Such sub-fractionation processes can effectively remove, via suitable narrow range isoelectric membranes, proteins present in large excess in a cell lysate or in body fluids. In turn, the remaining protein mixture, devoid of such major components, can be loaded in a 2-D map at much higher levels, thus ensuring a greater sensitivity and detection capability of low-abundance proteins. The apparatus is a multi-compartment electrolyser, which is characterised in that recirculation of the samples is not required. The apparatus produces protein fractions which are fully compatible with the subsequent 2-D protocols, since it is based on a focusing technique, which yields samples highly concentrated and devoid of salts and buffers.

IPC 1-7  
**C07K 1/26**; **G01N 27/447**

IPC 8 full level  
**G01N 33/483** (2006.01); **B01D 57/02** (2006.01); **C07K 1/26** (2006.01); **C07K 1/28** (2006.01); **G01N 1/10** (2006.01); **G01N 27/447** (2006.01)

CPC (source: EP)  
**B01D 57/02** (2013.01); **C07K 1/26** (2013.01); **G01N 27/44708** (2013.01); **G01N 27/44795** (2013.01)

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)  
**WO 0136449 A1 20010525**; EP 1230258 A1 20020814; EP 1230258 A4 20041222; HK 1049343 A1 20030509; JP 2003514829 A 20030422

DOCDB simple family (application)  
**AU 0001391 W 20001114**; EP 00974180 A 20001114; HK 03100703 A 20030128; JP 2001538938 A 20001114