

Title (en)

CONTROLLING TRANSMEMBRANE PRESSURE IN MEMBRANE PLASMA FILTRATION.

Title (de)

REGELUNG DES TRANSMEMBRANDRUCKES BEI DER PLASMAMEMBRANFILTRATION.

Title (fr)

REGULATION DE LA PRESSION TRANS-MEMBRANE DANS LE FILTRAGE DE PLASMA PAR MEMBRANE.

Publication

EP 0168407 A4 19870429 (EN)

Application

EP 84904263 A 19841105

Priority

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Abstract (en)

[origin: WO8502554A1] Method and apparatus for controlling the pressure differential across the filter membrane (14) in membrane plasma filtration apparatus (12). Control means (26) in fluid communication with a plasma-containing fluid flow path (30) up-stream of the filter membrane (14) and cooperatively associated with the plasma filtrate flow path (32), is operable to vary the size of the plasma filtrate flow path (32) inversely with respect to changes in the pressure in the plasma-containing fluid, thereby maintaining the differential pressure substantially constant. The control means includes a movable surface (34) disposed for contact with fluid in the fluid flow path (30) upstream of the membrane (14), the surface (34) being movable upon pressure changes in the blood flow path (30) to vary the size of the plasma filtrate flow path (32). The movable surface (34) is biased to a normally open plasma filtrate flow path condition by a force of selected amount corresponding to the desired pressure differential.

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CPC (source: EP US)

A61M 1/3496 (2013.01 - EP); **B01D 61/22** (2013.01 - EP US); **B01D 63/02** (2013.01 - EP US); **B01D 2313/19** (2013.01 - EP)

Citation (search report)

- [X] EP 0096973 A1 19831228 - KURARAY CO [JP]
- [X] DE 3006455 A1 19810813 - TAKEDA CHEMICAL INDUSTRIES LTD [JP]
- See also references of WO 8502554A1

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DOCDB simple family (publication)

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