

Title (en)

SEPARATION METHOD AND DEVICE WITH SEMI-PERMEABLE MEMBRANES COMPRISING SULPHONATED POLYIMIDES

Title (de)

TRENNVERFAHREN UND -VORRICHTUNG MITTELS HALBDURCHLÄSSIGER MEMBRANEN AUS SULFONIERTEN POLYIMIDEN

Title (fr)

PROCEDE ET DISPOSITIF DE SEPARATION A MEMBRANES SEMI-PERMEABLES EN POLYIMIDES SULFONES

Publication

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Application

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Priority

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Abstract (en)

[origin: FR2789912A1] Separation process with semi-permeable membrane(s) is claimed in which said membrane(s) comprise sulfonated polyimide. Separation process with semi-permeable membrane(s) is claimed in which said membrane(s) comprise sulfonated polyimide with general formula (I): C1 and C2 = tetravalent group comprising at least 6-10C optionally substituted aromatic ring and/or 5-10C optionally substituted heterocyclic ring with S, N or O as heteroatom; C1 and C2 forming cycles of 5 or 6 atoms with neighboring imide groups; Ar1 and Ar2 = 6-10C optionally substituted aromatic ring and/or 5-10C optionally substituted heterocyclic ring with S, N or O as heteroatom; at least one being substituted by a sulfonic group; or R1 and R2 = NH2 or group of formula (II); C3 = divalent group comprising at least 6-10C optionally substituted aromatic ring and/or 5-10C optionally substituted heterocyclic ring with S, N or O as heteroatom; C3 forming 5-6 atom cycle with neighboring imide group; m = 2-20; n = 2-30; and o = 2-10. An Independent claim is also included for device using semi-permeable membranes.

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