

Title (en)  
CHARGE MODIFIED MICROPOROUS HOLLOW TUBES.

Title (de)  
VON LAST MODIFIZIERTE HOHLRÖHRE.

Title (fr)  
TUBES CREUX MICROPOREUX MODIFIES PAR LA CHARGE.

Publication  
**EP 0167573 A4 19880502 (EN)**

Application  
**EP 85900441 A 19841221**

Priority  
US 56676283 A 19831229

Abstract (en)  
[origin: WO8503012A1] Charge modified microporous hollow tube filter membranes. The tubes are comprised of an organic polymeric microporous filter membrane having a micro-structure throughout the membrane and an amount of charge modifying agent bound to substantially all of the membrane micro-structure without substantial pore size reduction or pore blockage. The charge modified microporous hollow tubes may be used for the filtration of fluids, particularly parenteral or biological liquids contaminated with charged particulate, and for plasmapheresis and other cross-flow filtration applications. The tubes have low extractables and are sanitizable or sterilizable.

IPC 1-7  
**B01D 31/00**

IPC 8 full level  
**A61M 1/00** (2006.01); **B01D 67/00** (2006.01); **B01D 69/08** (2006.01); **B01D 71/16** (2006.01); **B01D 71/34** (2006.01); **B01D 71/56** (2006.01); **B01D 71/82** (2006.01)

CPC (source: EP US)  
**B01D 67/0093** (2013.01 - EP); **B01D 67/00931** (2022.08 - US); **B01D 69/08** (2013.01 - EP); **B01D 2323/30** (2013.01 - EP)

Citation (search report)

- [X] FR 2147269 A1 19730309 - ALLIED CHEM
- [X] US 3524546 A 19700818 - HOEHN HARVEY H, et al
- [X] DE 2522821 A1 19761125 - BATTELLE INSTITUT E V
- [X] EP 0082355 A2 19830629 - ALIGENA AG [CH]
- [A] EP 0050864 A1 19820505 - AMF INC [US]
- [A] EP 0066814 A1 19821215 - AMF INC [US]

Designated contracting state (EPC)  
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)  
**WO 8503012 A1 19850718**; CA 1249110 A 19890124; EP 0167573 A1 19860115; EP 0167573 A4 19880502; JP S61500833 A 19860501

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**US 8402103 W 19841221**; CA 471039 A 19841227; EP 85900441 A 19841221; JP 50021884 A 19841221