

Title (en)

PTFE FIBRE MATERIAL AND PROCESS FOR MAKING IT

Title (de)

FASERMATERIAL AUS PTFE UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

MATIERE FIBREUSE EN PTFE ET SON PROCEDE DE FABRICATION

Publication

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Application

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Abstract (en)

[origin: US5700572A] PCT No. PCT/DE92/00712 Sec. 371 Date Jun. 2, 1995 Sec. 102(e) Date Jun. 2, 1995 PCT Filed Aug. 27, 1992 PCT Pub. No. WO93/05213 PCT Pub. Date Mar. 18, 1993The invention provides a fiber material of PTFE and, optionally, hydrophilizing additives, for use in the production of diaphragms for the electrolysis of alkali chlorides, as well as for filter layers. The fiber material comprises fiber bundles and these, in turn, comprise individual microfibrils, there being irregularly shaped interstices between the microfibrils. The fiber material is produced in that a PTFE dispersion, consisting of a salt solution with PTFE particles and, optionally, hydrophilizing additives, is treated in a hot gas/vapor stream in a fluidized bed apparatus charged with inert solids. The method permits the fiber material to be produced also in larger quantities in an economic manner.

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