

Title (en)

CROSSFLOW FILTER MEMBRANE, MEMBRANE MODULE, CONNECTING ELEMENT FOR CONNECTING MODULE PADS, METHOD FOR PRODUCING A MODULE ELEMENT, CROSSFLOW-FILTRATION MODULE, CROSSFLOW-FILTRATION METHOD AND A FILTER USE

Title (de)

CROSSFLOW-FILTERMEMBRAN, MEMBRANMODUL, VERBINDUNGSELEMENT ZUM VERBINDEN VON MODULKISSEN, VERFAHREN ZUR HERSTELLUNG EINES MODULELEMENTS, MODUL ZUR CROSSFLOW-FILTRATION, VERFAHREN ZUR CROSSFLOW-FILTRATION UND VERWENDUNG EINES FILTERS

Title (fr)

MEMBRANE DE FILTRATION A ECOULEMENT TRANSVERSAL, MODULE MEMBRANE, ELEMENT DE RACCORDEMENT SERVANT A RACCORDER DES COUSSINS MODULAIRES, PROCEDE POUR PRODUIRE UN ELEMENT MODULAIRE, MODULE DE FILTRATION A ECOULEMENT TRANSVERSAL, PROCEDE DE FILTRATION A ECOULEMENT TRANSVERSAL ET UTILISATION D'UN FILTRE

Publication

EP 1877166 A2 20080116 (DE)

Application

EP 06763075 A 20060502

Priority

- EP 2006061965 W 20060502
- EP 05103728 A 20050504
- EP 06763075 A 20060502

Abstract (en)

[origin: EP1721656A1] The membrane (1) is: formed from a three-dimensional cellulose fibers (length of 0.5-10 mm), which is strain hardened by a resin; reversibly compressible; constructed in such a way that its retention rate of the conventional plastic/ceramics membrane with a pore size of 0.2-1.2 μm corresponds with the beer filtration; and provided with a spacer at the infiltrate side area. Kieselguhr and/or pearlitites are non-homogeneously distributed in the membrane. A protective fabric/fleece layer is arranged between the spacer and the active layer (thickness of 2 mm). The structure of the membrane is non-homogeneously oriented on a direction perpendicular to the fiber density and the fiber lengths. The fibers and/or kieselguhr and/or pearlitites are distributed in a filtrate side area (13) of the membrane compared to the side-side area of the membrane of the fine particles from the infiltrate to be filtered. Independent claims are included for: (1) a module element for the installation in the crossflow filter; (2) a connecting element for connecting filter pads; (3) a method for producing a module element; (4) a module for cross-flow filtration; (5) procedure for cross-flow filtration of a liquid; (6) procedure for filtration of a beverage; and (7) procedure for the cleaning of a crossflow filter membrane.

IPC 8 full level

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CPC (source: EP US)

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