

Title (en)

COMPOUND REMOVAL USING MEMBRANE AND ACTIVATED CHARCOAL FILTRATION

Title (de)

ABTRENNUNG VON VERBINDUNGEN MITTELS FILTRATOR DURCH EINE MEMBRAN UND AKTIVKOHLE

Title (fr)

ELIMINATION DE COMPOSES PAR FILTRATION SUR MEMBRANE ET CHARBON ACTIF

Publication

EP 0784500 A1 19970723 (FR)

Application

EP 95932793 A 19950926

Priority

- FR 9501238 W 19950926
- FR 9411625 A 19940927

Abstract (en)

[origin: WO9609877A1] A method and a device for compound removal using membrane and activated charcoal filtration. The method is useful for removing organic or inorganic compounds from gaseous or aqueous effluents and comprises a membrane filtration step (microfiltration, ultrafiltration or nanofiltration) whereafter the permeate is passed over or through at least one activated charcoal membrane. The device for carrying out the method comprises at least one first filtration membrane (3) receiving the effluent (e) to be processed and providing a permeate that is virtually free of high molecular weight substances, said first membrane (3) being coupled to at least one second activated charcoal membrane (5) for adsorbing residual pollutants from the filtration permeate. Said method and device are particularly suitable for processing water containing humic substances and micropollutants.

IPC 1-7

B01D 61/14; **C02F 1/44**; **B01D 53/22**

IPC 8 full level

B01D 53/22 (2006.01); **B01D 61/00** (2006.01); **B01D 61/14** (2006.01); **B01D 61/18** (2006.01); **C02F 1/28** (2006.01); **C02F 1/44** (2006.01)

CPC (source: EP US)

B01D 53/226 (2013.01 - EP); **B01D 53/229** (2013.01 - EP); **B01D 61/00** (2013.01 - EP); **B01D 61/146** (2022.08 - EP US); **B01D 61/18** (2013.01 - EP); **C02F 1/44** (2013.01 - EP); **C02F 1/283** (2013.01 - EP); **C02F 1/441** (2013.01 - EP); **C02F 1/442** (2013.01 - EP); **C02F 1/444** (2013.01 - EP)

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

WO 9609877 A1 19960404; AU 3569895 A 19960419; AU 695619 B2 19980820; CA 2200304 A1 19960404; EP 0784500 A1 19970723; FR 2724849 A1 19960329; FR 2724849 B1 19970221; JP H10506323 A 19980623

DOCDB simple family (application)

FR 9501238 W 19950926; AU 3569895 A 19950926; CA 2200304 A 19950926; EP 95932793 A 19950926; FR 9411625 A 19940927; JP 51144495 A 19950926