

Title (en)

COMPOSITE MATERIAL BASED ON ZEOLITE AND ACTIVE CARBON, PREPARATION AND USE THEREOF IN WATER TREATMENT

Title (de)

AUF ZEOLITHEN UND AKTIVKOHLE BASIERTE VERBUNDSTOFFE, IHRE HERSTELLUNG UND IHRE VERWENDUNG IN DER WASSERBEHANDLUNG

Title (fr)

MATIERE COMPOSITE RENFERMANT DU ZEOLITE ET DU CHARBON ACTIF, PREPARATION ET UTILISATION DE CELLE-CI POUR LE TRAITEMENT DE L'EAU

Publication

EP 0968051 A1 20000105 (EN)

Application

EP 98908750 A 19980218

Priority

- US 9803786 W 19980218
- US 80321197 A 19970221
- US 2164298 A 19980210

Abstract (en)

[origin: WO9836831A1] Disclosed are formed composite material compositions suitable for use in the removal of heavy metals from aqueous systems, a process for preparing said composite materials and a process for the removal of heavy metals using said composite materials. Formed particulate composite material compositions are comprised of (A) at least one ion exchange material preferably a zeolite; (B) at least one activated carbon; and (C) at least one binder material. The method for preparing said composite material compositions comprises first mixing components (A), (B) and (C), then forming particles from said mixture. The method for removing heavy metals from aqueous systems containing one or more heavy metals comprises contacting said aqueous system with one or more of the composite materials until the heavy metals are substantially removed from the aqueous system.

IPC 1-7

B01J 20/20; **B01J 20/12**; **B01J 20/16**; **C02F 1/28**

IPC 8 full level

B01J 20/18 (2006.01); **B01J 20/20** (2006.01); **B01J 47/00** (2006.01)

CPC (source: EP)

B01J 20/183 (2013.01); **B01J 20/20** (2013.01); **B01J 47/018** (2016.12)

Citation (search report)

See references of WO 9836831A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9836831 A1 19980827; AU 6670098 A 19980909; EP 0968051 A1 20000105

DOCDB simple family (application)

US 9803786 W 19980218; AU 6670098 A 19980218; EP 98908750 A 19980218