

Title (en)

FILTER ELEMENT THAT EXHIBITS HEAT AND/OR CHEMICAL RESISTANCE

Title (de)

FILTERELEMENT MIT WÄRMEBESTÄNDIGKEIT UND/ODER CHEMISCHER BESTÄNDIGKEIT

Title (fr)

ELEMENT FILTRANT RESISTANT A LA CHALEUR ET/OU AUX PRODUITS CHIMIQUES

Publication

**EP 1699542 A1 20060913 (DE)**

Application

**EP 04803589 A 20041207**

Priority

- EP 2004013905 W 20041207
- DE 10357197 A 20031208

Abstract (en)

[origin: WO2005053818A1] The invention relates to a porous, permeable, inherently stable filter element, which (a) is suitable for use at a permanent temperature ranging between 50 and 200 DEG C and/or (b) has an excellent acid resistance. Said filter element is characterised in that it comprises a main constituent containing particles of a first material, said particles being held together by an adhesive. Prior to the processing of the adhesive with the main constituent, which consists of heating the mixture to a bonding temperature, the adhesive takes the form of a granular plastic starting material, which liquefies at the bonding temperature and either cures to form a duroplastic or solidifies to form a thermoplastic.

IPC 8 full level

**B01D 39/16** (2006.01); **B01D 39/20** (2006.01)

CPC (source: EP)

**B01D 39/1661** (2013.01); **B01D 39/2013** (2013.01); **B01D 39/2079** (2013.01)

Citation (search report)

See references of WO 2005053818A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005053818 A1 20050616**; CN 100496669 C 20090610; CN 1921921 A 20070228; DE 10357197 A1 20050707; EP 1699542 A1 20060913; JP 2007512957 A 20070524

DOCDB simple family (application)

**EP 2004013905 W 20041207**; CN 200480041434 A 20041207; DE 10357197 A 20031208; EP 04803589 A 20041207; JP 2006543455 A 20041207