

Title (en)
DESICCANT BASED HONEYCOMB CHEMICAL FILTER AND METHOD OF MANUFACTURE THEREOF

Title (de)
CHEMISCHER FILTER MIT TROCKENMITTELWABEN SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
FILTRE CHIMIQUE EN NID D'ABEILLE À BASE D'AGENT DESSÉCHANT ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2804694 A1 20141126 (EN)

Application
EP 13706714 A 20130119

Priority
• IN 178DE2012 A 20120120
• IB 2013000062 W 20130119

Abstract (en)
[origin: WO2013108117A1] The present invention provides a desiccant based honeycomb chemical filter comprising a matrix formed of a substrate having a desiccant generated in situ or deposited thereon, said desiccant being selected from the group consisting of metal silicates, silica gel, molecular sieves, activated alumina, activated carbon or hydrophobic zeolite, and any mixture thereof, said substrate being further impregnated with one or more of an oxidizing agent, or an alkali metal hydroxide, or strong or weak acid(s), or reducing agents.

IPC 8 full level
B01J 20/32 (2006.01); **B01D 53/02** (2006.01); **B01D 53/28** (2006.01); **B01J 20/28** (2006.01); **F24F 3/14** (2006.01)

CPC (source: CN EP)
B01D 53/02 (2013.01 - CN EP); **B01D 53/28** (2013.01 - CN EP); **B01J 20/2805** (2013.01 - CN EP); **B01J 20/3234** (2013.01 - CN EP); **B01D 2253/106** (2013.01 - CN EP); **B01D 2253/3425** (2013.01 - CN EP); **B01D 2257/708** (2013.01 - CN EP); **B01D 2257/90** (2013.01 - CN EP); **F24F 2203/1036** (2013.01 - CN EP)

Citation (search report)
See references of WO 2013108117A1

Citation (examination)
ANONYMOUS: "Sodium silicate - Wikipedia", 12 November 2018 (2018-11-12), XP055530034, Retrieved from the Internet <URL:https://en.wikipedia.org/wiki/Sodium_silicate> [retrieved on 20181204]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013108117 A1 20130725; AU 2013210811 A1 20140911; AU 2017208389 A1 20170817; BR 112014017899 A2 20170620; BR 112014017899 A8 20170711; CA 2865123 A1 20130725; CN 104470632 A 20150325; EP 2804694 A1 20141126; KR 20150003716 A 20150109; MX 2014008803 A 20150805

DOCDB simple family (application)
IB 2013000062 W 20130119; AU 2013210811 A 20130119; AU 2017208389 A 20170731; BR 112014017899 A 20130119; CA 2865123 A 20130119; CN 201380010260 A 20130119; EP 13706714 A 20130119; KR 20147023304 A 20130119; MX 2014008803 A 20130119