

Title (en)
SELF CLEANING FILTER ARRANGEMENT

Title (de)
SELBSTREINIGENDE FILTERANORDNUNG

Title (fr)
AGENCEMENT DE FILTRE À AUTO-NETTOYAGE

Publication
EP 2638201 A4 20140423 (EN)

Application
EP 11840019 A 20111108

Priority
• AU 2010905007 A 20101111
• AU 2011001439 W 20111108

Abstract (en)
[origin: WO2012061880A1] A self-cleaning system for a filter (6.010) includes a filter element (6.038); a filter housing (6.030) with first, second, and third ports (6.032, 6.034, 6.036); the first port being a fluid inlet; the second port being a fluid outlet, and the third port being a recirculation outlet, the first and second ports being on the upstream side of the filter element; the third port being on the downstream side of the filter element; enabling primary and transverse flow through the filter; whereby reverse flow via the third port is used to clean the filter element; the system including a one-way valve (4.040) connected to the second port to inhibit reflux of drain fluid into filter. A recirculation pump (3.014) and a drain pump (3.016) are controlled to periodically drain the lint removed from the filter to the system drain.

IPC 8 full level
D06F 58/22 (2006.01); **B01D 24/00** (2006.01); **B01D 24/46** (2006.01); **B01D 29/00** (2006.01); **B01D 29/11** (2006.01); **B01D 29/66** (2006.01); **D06F 35/00** (2006.01); **D06F 39/10** (2006.01)

CPC (source: EP US)
B01D 29/01 (2013.01 - EP US); **B01D 29/23** (2013.01 - EP US); **B01D 29/66** (2013.01 - EP US); **D06F 39/10** (2013.01 - EP US); **B01D 2201/0415** (2013.01 - EP US); **B01D 2201/291** (2013.01 - EP US)

Citation (search report)
• [X] DE 102007061036 A1 20090625 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
• [X] FR 2940764 A1 20100709 - GIROUSSE BENOIT [FR]
• [A] US 4119540 A 19781010 - MULLER JEAN-CLAUDE

Citation (examination)
• KR 20020094800 A 20021218 - LG ELECTRONICS INC [KR]
• EP 1649797 A1 20060426 - ELECTROLUX HOME PROD CORP [BE]
• EP 0317990 A1 19890531 - ABB CYLINDA AB [SE]
• DE 10046349 A1 20020328 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
• KR 20010094547 A 20011101 - LG ELECTRONICS INC [KR]
• US 2005120758 A1 20050609 - THIES EDWARD L [US], et al
• See also references of WO 2012061880A1

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 2012061880 A1 20120518; BR 112013011726 A2 20160816; CN 103228836 A 20130731; EP 2638201 A1 20130918; EP 2638201 A4 20140423; RU 2013126606 A 20141220; US 2014014595 A1 20140116

DOCDB simple family (application)
AU 2011001439 W 20111108; BR 112013011726 A 20111108; CN 201180054254 A 20111108; EP 11840019 A 20111108; RU 2013126606 A 20111108; US 201113884893 A 20111108