

Title (en)

AIR FILTER COMPRISING A SECURITY ELEMENT

Title (de)

LUFTFILTER MIT SICHERHEITSELEMENT

Title (fr)

FILTRE À AIR DOTÉ D'UN ÉLÉMENT DE SÉCURITÉ

Publication

**EP 2257360 A1 20101208 (DE)**

Application

**EP 09716100 A 20090226**

Priority

- EP 2009052321 W 20090226
- DE 102008011186 A 20080226
- DE 102008062953 A 20081223
- DE 102008062954 A 20081223
- DE 102008062956 A 20081223
- DE 102008062955 A 20081223

Abstract (en)

[origin: WO2009106593A1] The invention relates to an air filter arrangement comprising a filter element (1) provided with a first filter bellow-type element (10) and a security filter element (200) mounted downstream. The filter element has a flow-off form corresponding to the approach flow form of the security filter element.

IPC 8 full level

**B01D 46/52** (2006.01); **B01D 46/00** (2006.01); **B01D 46/54** (2006.01)

CPC (source: EP)

**B01D 46/0001** (2013.01); **B01D 46/0047** (2013.01); **B01D 46/2411** (2013.01); **B01D 46/4227** (2013.01); **B01D 46/522** (2013.01); **B01D 46/523** (2013.01); **F02M 35/024** (2013.01); **B01D 2275/208** (2013.01)

Citation (search report)

See references of WO 2009106593A1

Citation (examination)

- US 6348077 B1 20020219 - SOLBERG JR CHARLES [US], et al
- US 2007227362 A1 20071004 - PARKER NICK C [US]
- EP 0555761 A1 19930818 - DEERE & CO [US]
- US 2007045167 A1 20070301 - JAROSZCZYK TADEUSZ [US], et al

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2009106593 A1 20090903**; BR PI0907147 A2 20160426; BR PI0907821 A2 20170221; CN 102015062 A 20110413; CN 102015062 B 20151125; CN 102015063 A 20110413; CN 102015063 B 20140507; EP 2247364 A1 20101110; EP 2247364 B1 20140423; EP 2249944 A2 20101117; EP 2249944 B1 20130102; EP 2249944 B2 20151216; EP 2257360 A1 20101208; EP 2574390 A2 20130403; EP 2574390 A3 20130626; EP 2574390 B1 20150107; EP 2881158 A1 20150610; WO 2009106592 A2 20090903; WO 2009106592 A3 20110526; WO 2009106594 A1 20090903

DOCDB simple family (application)

**EP 2009052321 W 20090226**; BR PI0907147 A 20090226; BR PI0907821 A 20090226; CN 200980114807 A 20090226; CN 200980114809 A 20090226; EP 09714966 A 20090226; EP 09715896 A 20090226; EP 09716100 A 20090226; EP 12196545 A 20090226; EP 14197957 A 20090226; EP 2009052320 W 20090226; EP 2009052322 W 20090226