

Title (en)

Electret articles and filters with increased oily mist resistance

Title (de)

Elektretartikel und Filter mit erhöhter Beständigkeit gegen ölhaltigen Nebel

Title (fr)

Articles et filtres en électret avec résistance augmentée à un brouillard huileux

Publication

**EP 1402934 B8 20071010 (EN)**

Application

**EP 03026835 A 19980126**

Priority

- EP 98904680 A 19980126
- US 94127097 A 19971001

Abstract (en)

[origin: WO9916532A1] Novel electret articles containing a polymer and a performance-enhancing additive can be identified by their thermally stimulated conductivity characteristics or their filtration properties. Electret articles such as nonwoven filter webs and respirators exhibits superior oily mist loading performance, low penetration and a small pressure drop. The electret articles are preferably produced by melt-blowing a blend of a polymer and a fluorochemical additive selected from the group consisting of formulae (I), (II) and (III).

IPC 8 full level

**A62B 23/00** (2006.01); **A62B 23/02** (2006.01); **B01D 39/08** (2006.01); **B01D 39/14** (2006.01); **B01D 39/16** (2006.01); **B03C 3/28** (2006.01); **D01F 1/10** (2006.01); **D01F 6/06** (2006.01); **D01F 6/46** (2006.01); **D01F 8/06** (2006.01); **D04H 1/42** (2006.01); **D04H 1/56** (2006.01); **D06M 10/02** (2006.01); **D06M 13/02** (2006.01); **D06M 13/322** (2006.01); **D06M 13/418** (2006.01); **D06M 15/227** (2006.01); **H01G 7/02** (2006.01)

CPC (source: EP KR US)

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Cited by

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**WO 9916532 A1 19990408**; AU 6249498 A 19990423; AU 740968 B2 20011115; BR 9812585 A 20000725; CA 2303004 A1 19990408; CN 1101241 C 20030212; CN 1272069 A 20001101; DE 69837864 D1 20070712; DE 69837864 T2 20081224; DE 69839703 D1 20080821; EP 1019173 A1 20000719; EP 1019173 B1 20080709; EP 1019173 B9 20081105; EP 1402934 A1 20040331; EP 1402934 B1 20070530; EP 1402934 B8 20071010; JP 2003520659 A 20030708; JP 2009006313 A 20090115; KR 100496233 B1 20050620; KR 20010024378 A 20010326; PL 195918 B1 20071130; PL 339650 A1 20010102; RU 2199372 C2 20030227; US 6214094 B1 20010410; US 6238466 B1 20010529; US 6261342 B1 20010717

DOCDB simple family (application)

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