

Title (en)

HALOGEN-FREE SOLID FLAME RETARDANT MIXTURE AND USE THEREOF

Title (de)

HALOGENFREIE FESTE FLAMMSCHUTZMITTELMISCHUNG UND IHRE VERWENDUNG

Title (fr)

MÉLANGE IGNIFUGE SOLIDE EXEMPT D'HALOGÈNES ET UTILISATION CORRESPONDANTE

Publication

EP 3099760 A1 20161207 (DE)

Application

EP 15701669 A 20150119

Priority

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- EP 2015000080 W 20150119

Abstract (en)

[origin: WO2015113740A1] The invention relates to a halogen-free flame retardant mixture containing between 1 - 99 wt.% of a component A and between 1 - 99 wt.% of a component B. Component A comprises between 85 - 99.995wt.-% of a solid diethylphosphinic acid salt of the metals Mg, Ca, Al, Sb, Sn, Ge, Ti, Fe, Zr, Zn, Ce, Bi, Sr, Mn, Li, Na, K and/or a protonated nitrogen base and between 0.005 - 15 wt.-% of non-combustible additives and component B is in the form of an aluminum phosphite.

IPC 8 full level

C09K 21/12 (2006.01); **C08K 3/32** (2006.01); **C08K 5/00** (2006.01); **C08K 5/5313** (2006.01)

CPC (source: EP KR US)

C08K 3/016 (2017.12 - KR); **C08K 3/32** (2013.01 - EP KR US); **C08K 5/0066** (2013.01 - KR); **C08K 5/49** (2013.01 - KR); **C08K 5/5313** (2013.01 - EP KR US); **C08K 11/00** (2013.01 - EP US); **C08L 101/00** (2013.01 - KR); **C09K 21/04** (2013.01 - EP US); **C09K 21/06** (2013.01 - KR); **C09K 21/12** (2013.01 - EP KR US); **C08L 2201/02** (2013.01 - KR); **C08L 2201/22** (2013.01 - KR); **C08L 2666/84** (2013.01 - KR)

Citation (search report)

See references of WO 2015113740A1

Designated contracting state (EPC)

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DE 102014001222 A1 20150730; CN 105940085 A 20160914; CN 105940085 B 20200324; CN 109796628 A 20190524; CN 109796628 B 20210420; CN 109810291 A 20190528; CN 109810291 B 20210420; CN 109824939 A 20190531; CN 109824940 A 20190531; EP 3099760 A1 20161207; EP 3505596 A1 20190703; EP 3505596 B1 20220518; EP 3505597 A1 20190703; EP 3505597 B1 20220831; EP 3505598 A1 20190703; EP 3505599 A1 20190703; EP 3521402 A1 20190807; EP 3521402 B1 20220831; ES 2914882 T3 20220617; JP 2017508832 A 20170330; JP 6630278 B2 20200115; KR 102405986 B1 20220610; KR 20160114160 A 20161004; PL 3505596 T3 20220919; PL 3505597 T3 20230109; PL 3521402 T3 20230102; US 10508238 B2 20191217; US 2016340588 A1 20161124; WO 2015113740 A1 20150806

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DE 102014001222 A 20140129; CN 201580006135 A 20150119; CN 201910082730 A 20150119; CN 201910082744 A 20150119; CN 201910082761 A 20150119; CN 201910082762 A 20150119; EP 15701669 A 20150119; EP 19152589 A 20150119; EP 19152590 A 20150119; EP 19152591 A 20150119; EP 19152592 A 20150119; EP 19152594 A 20150119; EP 2015000080 W 20150119; ES 19152589 T 20150119; JP 2016548346 A 20150119; KR 20167023663 A 20150119; PL 19152589 T 20150119; PL 19152590 T 20150119; PL 19152591 T 20150119; US 201515114688 A 20150119