

Title (en)
FLAME-RETARDANT MIXTURES, FLAME-RETARDING POLYMER COMPOSITIONS, CABLE EQUIPPED THEREWITH AND USE THEREOF

Title (de)
FLAMMSCHUTZMITTELMISCHUNGEN, FLAMMHEMMENDE POLYMERZUSAMMENSETZUNGEN, DAMIT AUSGERÜSTETE KABEL UND DEREN VERWENDUNG

Title (fr)
MÉLANGES IGNIFUGES, COMPOSITIONS POLYMÈRES RETARDATRICE DE FLAMME, Câbles pourvus de ces dernières et leur utilisation

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Abstract (en)
[origin: WO2020109469A1] The invention relates to flame-retardant mixtures containing: a) salt of a phosphinic acid of the formula (I), wherein R1 and R2 mean, independently of each other, alkyl-, cycloalkyl-, aryl- or aralkyl, which are substituted as applicable, M is an m-valent cation, and m means 1 to 4, b) salt of a phosphinic acid of the formula (II), which differs from component a), wherein R3 means substituted, as applicable, alkyl-, cycloalkyl-, cycloalkyl-alkyl, aryl- or aralkyl, preferably with alkyl radicals as substituents, R4 is alkyl having an even number of carbon atoms, provided that, in the case that R1 and/or R2 are alkyl, R4 has double, triple or quadruple the number of carbon atoms of R1 or R2, M is an n-valent cation and n means 1 to 4, c) organylphosphonate, d) phosphite, e) as applicable, a representative selected from the group consisting of triazine complex, polyphosphate, hypophosphite, nitrogenous diphosphate, organophosphate, phosphazene and/or polyphosphonate, f) as applicable, a representative selected from the group consisting of metal hydroxide, metal carbonate, metal borate, zinc stannate and/or intumescence additive, and g) as applicable, pigment, wherein at least one of components e) and/or f) must be present in the mixture. The mixtures can use thermoplastic and elastomeric polymers in order to produce flame-retardant polymer compositions, which are exceptionally suitable for producing cable sheathing or cable insulation.

IPC 8 full level
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