

Title (en)
FLAME-RETARDANT SYNTHETIC FIBER, FLAME-RETARDANT FIBER COMPOSITE, AND UPHOLSTERED FURNITURE PRODUCT MADE WITH THE SAME

Title (de)
FLAMMFESTE SYNTHESEFASER, FLAMMFESTER FASERVERBUND SOWIE DAMIT HERGESTELLTES POLSTERMÖBEL

Title (fr)
FIBRE SYNTHETIQUE RETARDATRICE DE FLAMME, COMPOSITE DE FIBRE RETARDATRICE DE FLAMME, ET PRODUIT D'AMEUBLEMENT REMBOURRE REALISE AVEC LADITE FIBRE

Publication
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Application
EP 05770521 A 20050810

Priority

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- JP 2004299406 A 20041013

Abstract (en)
[origin: EP1798318A1] A flame resistant synthetic fiber having advanced flame resistance is provided. Furthermore, the flame resistant synthetic fiber may preferably be used in textiles used for furniture, such as beddings and chairs, such as mattress, and sofa, etc. that need extremely high carbonizability rendered highly flame resistant by flame resistant agents and advanced flame resistance. The present invention also aims at obtaining upholstered furniture products using the flame resistant fiber composite having advanced flame resistance. That is, the present invention relates to a flame resistant fiber composite consisting of a flame resistant synthetic fiber (A) not less than 10 parts by weight, and at least one fiber (B) selected from a natural fiber and/or a chemical fiber (B) not more than 90 parts by weight, the flame resistant synthetic fiber (A) comprising 100 parts by weight of a polymer containing halogen atom of not less than 17% by weight, 3 to 50 parts by weight of a zinc compound, 0 to 30 parts by weight of an antimony compound, and 3 to 30 parts by weight of an other inorganic compound, a total amount of these compounds being not less than 15 parts by weight, and also relates to upholstered furniture products using the flame resistant fiber composite.

IPC 8 full level
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D01F 1/07 (2013.01); **D01F 6/48** (2013.01)

Citation (search report)

- [X] EP 1247885 A1 20021009 - KANEKA CORP [JP]
- [X] JP H05148728 A 19930615 - KANEGAFUCHI CHEMICAL IND
- [A] US 3983290 A 19760928 - ELCIK ROBERT G
- [A] US 5342874 A 19940830 - CHAPLIN DOMINIC [GB], et al
- [A] US 3985706 A 19761012 - KAY EDWARD L
- [A] GEOFFREY PRITCHARD: "Plastics Additives An A-Z reference", 1998, CHAPMAN & HALL, LONDON, ISBN: 0-412-72720-X, XP002483389
- See references of WO 2006040873A1

Cited by
CN102985604A; EP2896634A1; WO2011137213A3; WO2011045673A1; US10400356B2; US8732863B2; US8973164B2

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