

Title (en)
FLEXIBLE, FLAME-RETARDANT COMPOSITE MATERIAL

Title (de)
FLEXIBLES FLAMMHEMMENDES VERBUNDMATERIAL

Title (fr)
MATÉRIAU COMPOSITE IGNIFUGE FLEXIBLE

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Application
EP 21306185 A 20210831

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Abstract (en)
The invention relates to a flexible, flame-retardant composite material comprising:- a fabric layer; and- at least one impregnated or coated Polyvinyl Butyral (PVB) coating layer, which is integral with said fabric layer; the PVB coating layer containing 20 to 60% by weight of PVB, at least one plasticizer in an amount of 5 to 40% by weight of the coating layer, and a mixture of antimony trioxide Sb₂O₃ and at least one halogenated organic compound as flame retardant in a total amount of 5 to 45% by weight with respect to the coating layer, and in a ratio of 0.1 to 5 part of antimony trioxide Sb₂O₃ per part of halogenated organic compound. The invention also relates to the manufacturing method thereof, comprising an impregnation or coating of a water-based dispersion of PVB onto the fabric layer, and a further curing.

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Citation (search report)
• [Y] TW M601254 U 20200911 - LIN JUN WEI [TW] & EP 3929351 A1 20211229 - LIN CHUN WEI [TW]
• [Y] US 7666802 B2 20100223 - CAPWELL DAVID A [US]
• [Y] US 2017043558 A1 20170216 - PARK SUNG HA [KR], et al

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