

Title (en)

Flexible fibrous endothermic sheet material for fire protection.

Title (de)

Biegsames faseriges endothermisches Flächengebilde zum Feuerschutz.

Title (fr)

Matériau fibreux, souple et endothermique en nappe pour la protection contre le feu.

Publication

EP 0132936 A1 19850213 (EN)

Application

EP 84303739 A 19840604

Priority

US 51576883 A 19830721

Abstract (en)

This invention relates to a non-intumescent, non-char forming, endothermic, essentially inorganic, flexible, fire-protective sheet material. The flexible sheet is made of a composition comprising: (a) an inorganic fiber, such as alumino-silicate refractory fibers; (b) an organic polymer binder, such as an acrylic resin; and (c) an inorganic endothermic filler, such as alumina trihydrate. The weight ratio of organic to inorganic constituents is less than about 0.15, and the weight ratio of inorganic endothermic filler of part (c) to inorganic fiber of part (a) is in the range of about 0.5 to 5.0. This sheet is a useful fire barrier wrap for conduits and cable trays in building construction, which provides excellent fire protection, but the current capacity derating of cables is significantly less with this new fibrous sheet than it is in the case of known fire barrier sheet materials.

IPC 1-7

H01B 7/34

IPC 8 full level

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Citation (search report)

- [X] US 3772455 A 19731113 - NICODEMUS P, et al
- [X] DE 2530388 A1 19761216
- [X] DE 2844693 A1 19790426 - FLAMEMASTER CORP
- [A] FR 2257555 A1 19750808 - FLAMEMASTER CORP [US]
- [A] US 3928210 A 19751223 - PETERSON ROGER L

Cited by

EP0629678A1; CN107078231A; US5508082A; GB2299092A; GB2299092B; FR2749025A1; EP0629677A1; EP0338476A1; FR2630253A1; CN110256703A; WO9516008A1; US10396416B2; US10651521B2; EP3146574A1

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