

Title (en)

Forming a batt of bonded fibres for use as thermal insulation.

Title (de)

Herstellung eines verfestigten Faservlieses zwecks Verwendung als thermische Isolierung.

Title (fr)

Formation d'une nappe de fibres liées pour son utilisation dans l'isolation thermique.

Publication

EP 0297187 A1 19890104 (EN)

Application

EP 87305892 A 19870703

Priority

US 62309484 A 19840621

Abstract (en)

A bonded fibre insulation batt is produced by ragging, teasing and otherwise doffering fibres of wool and/or synthetic or other natural fibres such as monoacrylic, acrylic, polyamide, polyester or cotton fibres, so as to form a sliver with said fibres randomly dispersed. The sliver is passed through a lapper which causes the sliver to lap on itself to form a mat of desired thickness. The sliver is sprayed with a resin emulsion prior to lapping so that the mat produced is thoroughly impregnated. The resin emulsion can include a fireproofing resin, and preferably a pesticide and a smoke retardant. The impregnated mat passes to a dryer to remove a substantial part of the water content thereof with minimal heating of the fibres. Following the water removal the mat passes to an oven to cure the resin thus forming the insulating batt which can be cut to desired size.

IPC 1-7

D04H 1/42; **D04H 1/74**

IPC 8 full level

D04H 1/42 (2012.01); **D04H 1/74** (2006.01)

CPC (source: EP US)

D04H 1/4266 (2013.01 - EP); **D04H 1/4374** (2013.01 - EP); **D04H 1/43835** (2020.05 - EP US); **D04H 1/74** (2013.01 - EP)

Citation (search report)

- [AD] AU 527843 B2 19830324 - LEWELLIN R L
- [A] US 3181225 A 19650504 - KNOEPFLER NESTOR B, et al
- [A] DE 1560802 A1 19710304 - FREUDENBERG CARL FA
- [A] FR 2087803 A5 19711231 - CHIAROTTO NEREO

Cited by

CN115198425A; US8424262B2; WO03054265A1

Designated contracting state (EPC)

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