

Title (en)

Needling aid for producing needle felts, a needle felt produced by using it, and a method for production thereof

Title (de)

Verfahrenshilfsmittel für ein Nadelfilz, ein unter Anwendung diese Verfahrenshilfsmittel hergestellter Nadelfilz und Verfahren zur Herstellung

Title (fr)

Aide d'aiguilletage pour la production de feutres aiguilletés, feutre aiguillete fabrique utilisant cette aide et procédé de production

Publication

EP 0819788 A3 20000202 (EN)

Application

EP 97111983 A 19970714

Priority

DE 19628477 A 19960715

Abstract (en)

[origin: EP0819788A2] The present invention concerns a needle felt of mineral wool, in particular glass wool, which even at elevated temperatures does not release any toxic products, in particular no formaldehyde, into the surrounding atmosphere and therefore has optimum suitability for use as a heat insulating material in household appliances such as ovens or cookers. Freeness from formaldehyde of the needle felt results from utilisation of a novel needling aid on the basis of halogenated polymers, in particular fluorated polymers.

IPC 1-7

D04H 1/46; **D06M 15/53**; **D06M 15/507**; **C03C 25/02**

IPC 8 full level

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CPC (source: EP)

D04H 1/4218 (2013.01); **D04H 1/46** (2013.01)

Citation (search report)

- [A] EP 0638629 A2 19950215 - ASAHI CHEMICAL IND [JP]
- [A] US 4654235 A 19870331 - EFFENBERGER JOHN A [US], et al
- [A] EP 0363707 A2 19900418 - GRUENZWEIG & HARTMANN [DE]
- [A] US 3913191 A 19751021 - SMITH II ALEXANDER M

Cited by

EP2781635A1; ITVE20130008A1; EP3260589A1; ITUA20164647A1; WO2018050924A1; FR2801243A1; WO2018024962A1; JP2003515071A; JP4773020B2; EP3208246A1; DE102016202401A1

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