

Title (en)

Thermally insulating bulky product and method for its manufacture.

Title (de)

Wärmeisolierendes voluminöses Produkt und Verfahren zu seiner Herstellung.

Title (fr)

Produit volumineux d'isolation thermique et procédé pour sa fabrication.

Publication

EP 0038887 A1 19811104 (EN)

Application

EP 80301385 A 19800428

Priority

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Abstract (en)

A thermally insulating nonwoven bulky product is made up of substantially continuous single filaments of between 0.01 to 2 deniers stabilized in the product by a surface binder on the filaments. The bulky product may be made from multi-filament polyester (2) direct from the spinneret by passing it in a high speed air current through a nozzle (3) and against a surface (4) where it is broken into single filaments (8) which pass through a mist of binder emulsion ejected from a spraying nozzle (5) and so are deposited on a support conveyor (6). The speed of the conveyor (6) is adjusted so that the filaments settle in folds giving a pile of substantial thickness which is then dried and heat set under heated elements (7). The product, which may well have a bulkiness between 50 and 550 ml/g, can be used for filling articles such as duvets, sleeping bags, anoraks, and the like, and has a thermal insulation comparable to that of down.

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D04H 3/03

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- DE 2004905 A1 19701119
- US 2736676 A 19560228 - FRICKERT JR PHILIP J

Cited by

US5220416A; EP2700742A1; WO2007101578A3

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