

Title (en)

HIGHLY COMPRESSED FILTER TOW BALE AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

HOCHVERDICHETER FILTER TOW BALLEN UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

BALLE DE MECHE POUR FILTRE FORTEMENT COMPRIMEE ET PROCEDE DE PRODUCTION DE CETTE BALLE

Publication

**EP 1497186 A2 20050119 (DE)**

Application

**EP 03722517 A 20030422**

Priority

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- EP 0304132 W 20030422

Abstract (en)

[origin: WO03089309A2] Disclosed is a packed, highly compressed cuboid-shaped filter tow bale, the top side and bottom side of which are free from nuisance curvatures or constrictions. Said bale is characterized by the fact that a) the bale has a packing density of at least 300 kg/m<sup>3</sup>, b) the bale is entirely wrapped in a mechanically self-supporting, elastic packing material which is provided with one or several convectively airtight connections, and c) the top side and bottom side of the bale are so flat that a flat plate which fully covers the bale can be pressed onto the top side of the bale via a centrally effective normal force of 100 N and at least 90 percent of the surface of the top side of the bale, which lies within the largest rectangle that can be inserted by vertically projecting the bale onto the pressed plate, has a maximum distance of about 40 mm from the flat plate when the unopened bale is placed on a horizontal plane. A particularly suitable method for producing said bale comprises the following steps: a) filter tow is supplied in a compressed form; b) the compressed filter tow is enveloped in a wrapping; c) the wrapping is closed in an airtight manner; and d) the wrapped bale is relieved of the load. The wrapping of such a bale is largely prevented from bursting as a result of the prevailing internal pressure. The inventive bale has an ideal cuboid shape such that curvatures negatively affecting the bale during transport or constrictions hampering the behavior of the filter tow are largely prevented from occurring.

IPC 1-7

**B65D 1/00**

IPC 8 full level

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IPC 8 main group level

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