

Title (en)
Use of a textile pile material

Title (de)
Verwendung eines textilen Florstoffs

Title (fr)
Utilisation d'un matériau textile velours

Publication
EP 2258893 A1 20101208 (DE)

Application
EP 09006578 A 20090514

Priority
EP 09006578 A 20090514

Abstract (en)
The flexible textile fabric such as tissue or pile fabric (1), knitted fabric, tuft, or other fiber composite, which is provided with pile threads (2) or pile yarns on one side, is claimed, where a part of the pile threads or pile yarns are partially made of metallic material in the form of alloy for the use for heat dissipation and/or heat storage. A part of the textile fabric is partially made of metallic material in the form of alloy. The part of the pile threads or pile yarns and the part of the textile fabric are formed as twisted yarn with a metallic fiber and a non-metallic fiber. The flexible textile fabric such as tissue or pile fabric (1), knitted fabric, tuft, or other fiber composite, which is provided with pile threads (2) or pile yarns on one side, is claimed, where a part of the pile threads or pile yarns are partially made of metallic material in the form of alloy for the use for heat dissipation and/or heat storage. A part of the textile fabric is partially made of metallic material in the form of alloy. The part of the pile threads or pile yarns and the part of the textile fabric are formed as twisted yarn with a metallic fiber and a non-metallic fiber. The non-metallic fiber is formed as a synthetic fiber with the part of the pile threads or pile yarns and the part of the textile fabric. The metallic material is formed as a wire strand, a mesh or a metallic twisted yarn with the part of the pile threads or pile yarns and the part of the textile fabric. The part of the pile threads or pile yarns and the part of the textile fabric consist of a material having a specific heat conductivity of 200 W/mK.

Abstract (de)
Die Erfindung betrifft ein textiles Flächengebilde, insbesondere Gewebe oder Schlingengewebe, Gestricke, Tuft, welches lediglich einseitig mit Flor- bzw. Polfäden versehen ist. Um eine Möglichkeit für einen leicht an beliebige Einsatzbedingungen anpassbaren Kühlkörper anzugeben, soll bei einem textilen Flächengebilde für eine Verwendung zur Wärmeableitung und/oder Wärmespeicherung zumindest ein Teil der Flor- bzw. Polfäden wenigstens teilweise aus einem metallischen Material, insbesondere in Form einer Legierung, gebildet sein.

IPC 8 full level
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Citation (search report)

- [X] US 4010004 A 19770301 - BROWN PERRY H, et al
- [X] DE 1957767 A1 19710527 - DOW CHEMICAL CO
- [X] US 3643316 A 19720222 - GIRARD LAURENT H, et al
- [X] DE 2047848 A1 19710422
- [X] US 3973059 A 19760803 - BROWN PERRY H, et al
- [A] JP 2004060111 A 20040226 - TOYO BOSEKI
- [A] GB 894336 A 19620418 - PHILIPS NV

Cited by
FR2990446A1; CN114787448A; US10087559B2; WO2013167625A3; WO2021053241A1

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