

Title (en)
Semi-finished product for composite material

Title (de)
Halbzeug für Verbundwerkstoff

Title (fr)
Demi-produit pour matériau composite

Publication
EP 0758693 A1 19970219 (DE)

Application
EP 95112661 A 19950811

Priority
EP 95112661 A 19950811

Abstract (en)
A finished, or for mfr. of shaped parts, half-finished prod. (20) comprises a fabric mesh in which one thread (4) has been mfd. from a first and another (5) from a second material, at least the latter being thermoplastic. The second material has a softening temp. (second order transition point) lower than that of the first and when heated beyond a given temp. binds as one with the first material and itself. The two threads are distributed evenly over the sheet surface. Also claimed is a similar prod. but where the first thread is coated with a third material. When heated as before the second material binds as one with the coating and itself. Also claimed is a wall-covering made from the prod.. Pref. the second material has shape memory, i.e. after being heated then cooled it retains the shape it had during heating. The first material is non-organic, e.g. metal, ceramic or other inorganic compound and at least its threads are yarn, spun yarn, endless yarn, a monofil, doubled or twisted yarn and its fibres single or staple. The second material threads can be similarly chosen. The mesh is a knit which has plain stitches on both sides, purl on both sides or plain on one and purl on the other, each stitch being formed from a thread of the first and a thread of the second material. The knit has materials distributed randomly on each side or it is a plated knit, the first material appearing on one side and the second on the other. The knit is pre-stretched in at least one direction, pref. parallel with the stitch wales and fixed in its stretched state. Stitch sides have a length between 2 and 12, pref. 4 and 8, most pref. about 6 mm.

Abstract (de)
Ein Fertigprodukt oder ein insbesondere zur Herstellung von Formteilen geeignetes Halbzeug (20,30) besteht aus einer Maschenware, in der wenigstens ein Faden (4) aus einem ersten Material und wenigstens ein anderer Faden (5) aus einem zweiten Material verarbeitet sind. Zumindest das zweite Material ist thermoplastisch und hat eine Erweichungstemperatur (Glasumwandlungspunkt), die niedriger liegt als die Erweichungstemperatur des ersten Materials. Das zweite Material ist ein Material, das sich bei Erwärmung über eine vorbestimmte Temperatur stoffschlüssig mit dem ersten Material und mit sich selbst verbindet. <IMAGE>

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D04B 1/14

IPC 8 full level
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CPC (source: EP)
D04B 1/14 (2013.01); **D10B 2401/041** (2013.01); **D10B 2403/0114** (2013.01); **D10B 2505/02** (2013.01)

Citation (applicant)
DE 4137406 A1 19930519 - BASF AG [DE]

Citation (search report)
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• [X] EP 0310200 A2 19890405 - STAMICARBON [NL]
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• [DA] DE 4137406 A1 19930519 - BASF AG [DE]
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