

Title (en)
Fabric for use in the manufacture of tissue products having visually discernable background texture regions bordered by curvilinear decorative elements

Title (de)
Faser zur Verwendung bei der Herstellung von von gekrümmten Dekorationselementen umgebenen Gewebeprodukten mit visuell unterscheidbaren Hintergrundtexturbereichen

Title (fr)
Tissu à utiliser pour la fabrication de produits textiles ayant des régions de texture de fond perceptibles visuellement, entourées d'éléments décoratifs curvilinéaires

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Application
EP 07019184 A 20021017

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• US 1583801 A 20011102
• US 1585801 A 20011102

Abstract (en)
[origin: WO03040450A2] The present invention is a woven sculpted fabric for the manufacture of a tissue web having a tissue contacting surface and a method for making such a woven sculpted fabric. The tissue contacting surface of the woven sculpted fabric includes at least a first group of strands and a second group of strands wherein the first group of strands extend in a first direction and the second group of strands extend in a second direction. The first group of strands are adapted to produce elevated floats and depressed sinkers thereby defining a three-dimensional fabric surface comprising; a first background region having a set of substantially parallel first elevated floats separated by a set of substantially parallel first depressed sinkers, comprising first depressed sinkers positioned between adjacent first elevated floats and comprising first elevated floats positioned between adjacent first depressed sinkers; a second background region having a set of substantially parallel second elevated floats separated by a set of substantially parallel second depressed sinkers, comprising second depressed sinkers positioned between adjacent second elevated floats and comprising second elevated floats positioned between adjacent second depressed sinkers; and, a transition region positioned between the first and second background regions, wherein the first elevated floats of the first background region descend to become the second depressed sinkers of the second background region and the second elevated floats of the second background region descend to become the first depressed sinkers of the first background region.

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CPC (source: EP)
D21F 1/0027 (2013.01); **D21F 1/0036** (2013.01); **D21F 11/006** (2013.01)

Citation (search report)
• [XA] DE 19917869 A1 20001026 - SCA HYGIENE PROD GMBH [DE]
• [A] WO 9732081 A1 19970904 - ASTEN INC [US]
• [A] US 4161195 A 19790717 - KHAN MIR I A [US]
• [A] WO 0039393 A1 20000706 - KIMBERLY CLARK CO [US]
• [A] EP 0677612 A2 19951018 - KIMBERLY CLARK CO [US]

Cited by
WO2009107021A1; WO2009107022A1; US10517775B2; US11000428B2; US11591755B2; US11255051B2; WO2010022012A1; WO2010135270A1; US8383235B2; US9243368B2; US10765570B2; US7687140B2; US7989058B2; US8192836B2; US8597781B2; US10301778B2; US10895041B2; US7704601B2; US7939168B2; US8491995B2; US9089452B2; US9435081B2; US11408129B2; US11732420B2; US7811665B2; US8449976B2; US8460786B2; US10174458B2; US10968570B2; US11952723B2; US8025966B2; US8178196B2; US8652634B2; US9463605B2; US10023999B2; US10435845B2; US10435847B2; US10435846B2; US10648135B2; US10648134B2; US11427966B2; US10132042B2; US10458069B2; US10472771B2; US10822745B2; US11313061B2; US11725346B2; US11788221B2; US7960020B2; US8507083B2; US9085855B2; US9677226B2; US11932995B2; US8334049B2; US8334050B2; US8545976B2; US8753737B2; US9408503B2; US9593452B2; US9701101B2; US9752281B2; US9937694B2; US10092145B2; US10323358B2; US10542853B2; US10577749B2; US11091880B2; US11946205B2

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