

Title (en)

Wiping cloth with an antibacterial non-woven fabric

Title (de)

Wischtuch mit einem antibakteriell ausgerüsteten Vliesstoff

Title (fr)

Chiffon doté d'un tissu non tissé antibactérien

Publication

EP 2103724 B1 20110608 (DE)

Application

EP 08005131 A 20080319

Priority

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Abstract (en)

[origin: EP2103724A1] The non-woven fabric comprises continuous bi-component fibers. The body of the fiber includes at least one anti-microbial dopant. A novel feature is use of bi-component fibers split into elementary fibers. The surface density is 1200-3250 m²/kg. The elementary fibers have a fineness of 0.05-1 dtex. The dopant is uniformly distributed in only in one component of the body of the fiber. Its concentration is at least 100 ppm and preferably no more, although up to 500 ppm may be present. One component of the fiber body is polyamide or polyethylene. The other is polyethylene terephthalate or polyester. The dopant is uniformly-distributed in the polyethylene terephthalate or polyester component. The bi-component fiber is in the form of a PIE fiber. The dopant is an element of a sub-group, especially the 1b sub-group. It is silver, gold or copper. The superficial weight is at least 20 g/m². The fleece is dyed. The water absorption capacity is at least 350 wt% based on the dry weight of the nonwoven fabric. After a domestic wash at boiling point in accordance with DIN EN ISO 6330, the absorption is at least 400 wt% based on the dry weight.

IPC 8 full level

D04H 3/007 (2012.01); **D04H 3/009** (2012.01); **D04H 3/011** (2012.01); **D04H 3/016** (2012.01); **D04H 3/147** (2012.01)

CPC (source: EP)

A47L 13/17 (2013.01); **D01F 1/103** (2013.01); **D01F 8/14** (2013.01); **D04H 3/007** (2013.01); **D04H 3/009** (2013.01); **D04H 3/011** (2013.01); **D04H 3/016** (2013.01); **D04H 3/147** (2013.01)

Cited by

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