

Title (en)

Water-absorbent nonwoven fabric and process for producing same.

Title (de)

Wasserabsorbierender Vliesstoff und Verfahren zur Herstellung.

Title (fr)

Non-tissé absorbant l'eau et procédé de production.

Publication

EP 0638679 A1 19950215 (EN)

Application

EP 94305926 A 19940810

Priority

JP 21791293 A 19930811

Abstract (en)

A nonwoven fabric having an excellent water absorption, a satisfactory softness and hand feeling, and a superior processability and wet mechanical strength, comprises synthetic fibers and water-absorbent cellulosic fibers intertwined with each other, the water-absorbent cellulosic fibers comprising cross-linked carboxymethyl cellulose fibers having a carboxymethyl group-substitution degree of 0.35 to 1.6, and being produced by forming a precursory nonwoven web from the synthetic fibers and cellulose fibers intertwined with each other, and carboxy methylating and cross-linking separately or simultaneously the cellulose fibers in the precursory nonwoven fabric by using a carboxymethylating agent and a cross-linked agent, to convert the precursory nonwoven web to a water-absorbent nonwoven fabric.

IPC 1-7

D04H 1/42

IPC 8 full level

D04H 1/425 (2012.01); **D04H 1/4374** (2012.01); **D04H 1/498** (2012.01)

CPC (source: EP US)

D04H 1/425 (2013.01 - EP); **D04H 1/43835** (2020.05 - EP US)

Citation (search report)

- [YA] US 3556919 A 19710119 - JOHNS MARTHA MARIE, et al
- [Y] GB 1397154 A 19750611 - PERSONAL PRODUCTS CO [US]
- [Y] DATABASE WPI Section Ch Week 9203, Derwent World Patents Index; Class A94, AN 92-020362
- [A] DATABASE WPI Week 9204, Derwent World Patents Index; AN 92-030723

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DE FR GB

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