

Title (en)

ORGANIC RESIN NON-CRIMPED STAPLE FIBER

Title (de)

UNGECRIMPTE STAPELFASER MIT ORGANISCHEM HARZ

Title (fr)

FIBRES DISCONTINUES SANS FRISURE EN RÉSINE ORGANIQUE

Publication

**EP 3006610 A4 20160608 (EN)**

Application

**EP 14804999 A 20140527**

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Abstract (en)

[origin: EP3006610A1] The present invention is intended to provide an organic resin non-crimped staple fiber that has notably few defects and that uniformly disperses in a dispersion medium, and that is preferred for use in wet-laid nonwoven fabrics or resin reinforcement in applications such as in industrial materials and daily commodities. The organic resin non-crimped staple fiber of the present invention has a fineness of 0.0001 to 0.6 decitex, a fiber length of 0.01 to 5.0 millimeters, a moisture content of 10 to 200 weight%, a cut-end coefficient of 1.00 to 1.40, and a coefficient of variation relative to fiber length (CV%) of 0.0 to 15.0%, the cut-end coefficient and the coefficient of variation relative to fiber length being defined as follows: (1) Cut-End Coefficient =  $b/a$ , wherein  $a$  is the fiber diameter of a single yarn of the non-crimped staple fiber, and  $b$  is the maximum diameter at the cut end; (2) Coefficient of Variation Relative to Fiber Length (CV%) = (standard deviation of fiber length)/(mean value of fiber length)  $\times$  100 (%), wherein the number of measured single yarns is 50 in (1) and (2). The foregoing object can be achieved with this configuration.

IPC 8 full level

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Citation (search report)

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- [A] US 2008311815 A1 20081218 - GUPTA RAKESH KUMAR [US], et al
- [A] US 2013017451 A1 20130117 - KIDA TATSUNORI [JP]
- See references of WO 2014192746A1

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