

Title (en)

MOISTURE-ABSORBING FIBER DYEABLE WITH ACID DYES AND METHOD FOR PRODUCING SAME

Title (de)

MIT SAUREN FÄRBEMITTELN FÄRBBARE FEUCHTIGKEITSABSORBIERENDE FASER UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

FIBRE ABSORBANT L'HUMIDITÉ APTÉ À ÊTRE TEINTE AVEC DES COLORANTS ACIDES ET PROCÉDÉ POUR SA PRODUCTION

Publication

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Application

EP 10802210 A 20100715

Priority

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- JP 2010061937 W 20100715

Abstract (en)

[origin: EP2458082A1] The conventional crosslinked acrylic acid fiber has such characteristics that the harmonic functions such as pH buffer property, antistatic property and water-holding property and also high moisture-absorption rate, high moisture-absorption velocity, high moisture-absorption rate difference or temperature adjusting and humidity adjusting functions derived therefrom, but there is still a problem for its dyeing property. The present invention provides a fiber having the above characteristics and making a practical dyeing with an acid dye possible. To be more specific, the present invention provides a moisture-absorptive fiber dyeable with an acid dye, comprising a region of a polymer having a functional group acting as a dyeing site for acid dye and a region of a polymer having a crosslinked structure and a carboxyl group, wherein the saturation dye uptake of the acid dye to the fiber weight is 3.5 to 10% by weight and the carboxyl group content is 1.0 to 10 mmol/g.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

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- [XYI] BANDAK A ET AL: "HYDRAZINE TREATMENTS ON ACRYLIC FIBERS FOR NEW DYEING OPPORTUNITIES", AMERICAN DYESTUFF REPORTER, SAF INTERNATIONAL PUBLICATIONS, SECAUSUS, US, vol. 84, no. 6, 1 June 1995 (1995-06-01), pages 34,37 - 44, XP000512415, ISSN: 0002-8266
- [Y] DATABASE WPI Week 198131, Derwent World Patents Index; AN 1981-56237D, XP002775635
- [Y] DATABASE WPI Week 197522, Derwent World Patents Index; AN 1975-36524W, XP002775636
- See references of WO 2011010590A1

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