

Title (en)
FLAME-RESISTANT COTTON BLEND FABRICS

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Application
EP 87906715 A 19870925

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Abstract (en)
[origin: WO8802283A1] Polyester/cotton and nylon/cotton blends are rendered flame-resistant in single or a two step process in which a THP salt/prepolymer condensate of urea is applied, exposed to ammonia, then oxidized to form a polymer network in the cotton fibers, and a cyclic phosphonate ester or hexabromocyclododecane is applied to impart flame resistance to the nylon or polyester fibers. Flame-resistant cotton/synthetic blended fabrics having excellent hand and washfastness result.

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Citation (search report)
• [A] AMERICAN DYESTUFF REPORTER, vol. 65, no. 21, January 1976, pages 33,34,63; S.L. VAIL et al.: "Topping of THPOH-NH3 fire-retardant finishes"
• [A] THE JOURNAL OF FIRE RETARDANT CHEMISTRY, vol. 6, August 1979, pages 149-166, Wesport, US; R.H. BARKER et al.: "Calorimetric study of polyester/cotton blend fabrics. III. Effects of binary retardant systems"
• See references of WO 8802283A1

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