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Hauser et al.

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[54] FLAME-RESISTANT COTTON BLEND FABRICS

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[58] **Field of Search** 427/393.3, 337, 341; 8/195

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[57] **ABSTRACT**

Polyester/cotton and nylon/cotton blends are rendered flame-resistant in 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 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.

12 Claims, No Drawings