

Title (en)  
RESILIENT COTTON FIBER AND RELATED METHOD

Publication  
**EP 0360383 A3 19911211 (EN)**

Application  
**EP 89306807 A 19890704**

Priority  
US 24719988 A 19880921

Abstract (en)  
[origin: EP0360383A2] An improved fiber product comprises individual fibers which are finish-treated by saturating the fibers in a finish solution of durable press resin and a lubricant, then drying and curing the fibers such that the resin is saturated and cured and cross-linked to the interior of the fibers while the lubricant is maintained at or near the surface of the fibers. A preferred method includes treating bleached cotton fibers with a finish solution containing 3.0% - 4.0% of a formaldehyde-free, alkylated glyoxyl/cyclic urea condensate resin and 1.5% -2.5% of a reactive silicone, and a catalyst. The resultant finish-treated cotton fibers have a resiliency greater than untreated fibers and comparable to or greater than polyester fibers.

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**D06M 15/423**; **D06M 15/643**

IPC 8 full level  
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**D06M 15/423** (2013.01); **D06M 15/6436** (2013.01)

Citation (search report)  
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• [A] GB 896874 A 19620523 - NISSHIN BOSEKI KABUSHIKI KAISH  
• [A] FR 2173249 A1 19731005 - DOW CORNING [US]  
• [Y] TEXTILE CHEMIST AND COLORIST. vol. 18, no. 3, March 1986, NORT CAROLINA US pages 34 - 37; M.M. JOYNER: 'AMINOFUNCTIONAL POLYSILOXANES: A NEW CLASS OF SOFTENERS '

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