

Title (en)  
Bleaching of synthetic fibers.

Title (de)  
Bleichen von Synthefasern.

Title (fr)  
Blanchiment des fibres synthétiques.

Publication  
**EP 0671499 A2 19950913 (DE)**

Application  
**EP 95102883 A 19950301**

Priority  
• DE 4408249 A 19940311  
• DE 4424820 A 19940714

Abstract (en)  
Synthetic fibres are bleached using a soln., at 100-135 degrees C, that contains H<sub>2</sub>O<sub>2</sub> and has pH 3-7. Pref. the soln. contains ≤ 65 (pref. 20-35) wt.% H<sub>2</sub>O<sub>2</sub> soln., e.g. 1-20 ml/l of a 35 wt.% soln. It may include: (1) stabilisers, pref. <0.5 (esp. 0.3) wt.% alkaline earth (e.g. Mg and/or Ca) metal salts; (2) organic complexing agents, pref. aminocarboxylic acids and their alkali salts at 0.1-5 (pref. 0.2-1) g/l; (3) 0.1-5 (pref. 0.2-1) g/l bleaching auxiliary (esp. protein degradation product, alkyl- or alkylaryl-phosphate); (4) surfactant, pref. alkyl-phenol condensate; alkyl-aryl-sulphonic acid and/or alkyl sulphate at 0.5-3 (pref. 1-2) g/l; (5) 0.5-10 (pref. 2-3) g/l polyphosphate, partic. of formulae: M<sub>n</sub>+2P<sub>n</sub>O<sub>3n+1</sub> or M<sub>n</sub>P<sub>n</sub>O<sub>3n</sub>, where M = alkali(ne earth) or NH<sub>4</sub> ion; n = 1-6; (6) 0.1-5 g/l optical brightener. Treatment is at pH 5-7 and 120-130 degrees C (corresponding to 1-3.5, partic. 2-3, atm.), using a goods to liquor ratio 1:3-40, pref. 1:10-20. Bleaching is typically for 80-120 mins. at 100 degrees C or for 10-30 mins. at 135 degrees C.

Abstract (de)  
Gegenstand der vorliegenden Erfindung ist ein Verfahren zum Bleichen von Synthefasern mit Wasserstoffperoxid, das dadurch gekennzeichnet ist, daß man die Synthefaser mit einer Bleichlösung, enthaltend Wasserstoffperoxid, bei einem pH-Wert der Bleichlösung von 3 bis 7 und einer Bleichtemperatur der Bleichlösung zwischen 100 und 135 °C bleicht.

IPC 1-7  
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