

Title (en)
Process for producing satinated paper

Title (de)
Verfahren zur Erzeugung von satiniertem Papier

Title (fr)
Procédé pour la préparation de papier satiné

Publication
EP 0969141 A1 20000105 (DE)

Application
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Priority
DE 19828952 A 19980629

Abstract (en)
In the production of satinized paper, the paper fibers are charged at the preparation stage (1) so that introduced matter (5) builds up in their hollow zones. The process, in combination with the satinizing stage (3) using a pressure of at least 30 N/mm², gives a polished paper with a high optical effect. The introduced matter disperses into the interior of the paper fibers to increase their resistance to compression. The introduced material (5) can also build up solid layers within the fibers which line or partially fill the inner fiber zones. During satinizing, the pressure fractures the solid layers, to form a barrier layer between the fiber walls. The introduced material (5) contains calcium carbonate, which is crystallized within the fibers. The material can be composed of at least two components, added to the fiber suspension at different times. The fiber suspension (S) is formed from used paper, with the ink separated and removed. At the satinizing stage (3), pressure is applied at least at 60 N/mm² by a super calender.

Abstract (de)
Das Verfahren dient der Erzeugung von hochwertigem satinierten Papier und enthält die drei Verfahrensabschnitte Stoffaufbereitung (1), Papierbildung (2) und Satinageprozeß (3). Erfindungsgemäß werden die bei der Durchführung des Verfahrens verwendeten Papierfasern einer Faserbeladung unterzogen, bei der in den Hohlräumen der Fasern Stoffe eingelagert werden, die die Kompressibilität der Fasern verringert. In Kombination mit dem Satinageprozeß (3) kann dann ein Papier mit besonders hoher optischer Qualität erzeugt werden. <IMAGE>

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Citation (search report)
• [A] EP 0791685 A2 19970827 - METSAE SERLA OY [FI]
• [A] EP 0514595 A1 19921125 - UNION CAMP CORP [US]

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