

Title (en)

Process and apparatus for the high speed oxidation of organic fiber.

Title (de)

Verfahren und Apparat für die Oxidierung mit hoher Geschwindigkeit von organischen Fasern.

Title (fr)

Procédé et appareil pour l'oxydation à grande vitesse de fibres organiques.

Publication

EP 0626548 A1 19941130 (EN)

Application

EP 94201464 A 19940524

Priority

US 6931393 A 19930528

Abstract (en)

A process and related apparatus for the continuous oxidation of a web of organic fiber. The web undergoes multiple parallel passes through an oxidizing chamber. Each pass enters and leaves the chamber through appropriate slots and upon leaving the chamber passes around a cooling cylinder external to the chamber which lowers the temperature of the web an appropriate amount prior to the next pass. The alternate passes are as close as conveniently possible to each other and the interior surfaces of the chamber highly reflective all of which enables the most efficient use of heat required by the system and maximization of the velocity of the web through the chamber. <IMAGE>

IPC 1-7

F27B 9/28; **D01F 9/32**

IPC 8 full level

D01F 9/22 (2006.01); **D01F 9/32** (2006.01); **F27B 9/28** (2006.01)

CPC (source: EP)

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Citation (search report)

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- [AD] EP 0110557 A2 19840613 - TORAY INDUSTRIES [JP]
- [A] DE 1946473 A1 19700326 - CELANESE CORP

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