

Title (en)
OXIDIZING ENZYMES IN THE MANUFACTURE OF PAPER MATERIALS

Title (de)
OXIDATIV WIRKENDE ENZYME ZUR HERSTELLUNG VON PAPIERMASSEN

Title (fr)
ENZYMES D'OXYDATION UTILISEES DANS LA FABRICATION DE MATERIAUX PAPIERS

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Application
EP 02772086 A 20021017

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Abstract (en)
[origin: WO03035972A1] The use of fatty acid oxidizing enzymes in the manufacture of paper materials, such as paper, linerboard, corrugated paperboard, tissue, towels, corrugated containers and boxes. Examples of fatty acid oxidizing enzymes are oxygenases classified as EC 1.13.11. including any of the sub-classes thereof, such as lipxygenase, EC 1.13.11.12. The effect of these enzymes is that the deposition of pitch is reduced, and bleaching and de-inking effects are also observed on the paper pulp and the resulting paper material. The fatty acid oxidizing enzyme can be used in combination with a substrate, with proteases, lipases, xylanases, cutinases, oxidoreductases, cellulases, endoglucanases amylases, mannanases, steryl esterases, and/or cholesterol esterases; or with surfactants and other adjuvants.

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