

Title (en)

A method in the activation of lignocellulosic material with a gas containing nitrogen dioxide.

Title (de)

Verfahren in der Aktivierung von Lignocellulosematerial mit einem Stickstoffdioxid enthaltenden Gas.

Title (fr)

Procédé dans l'activation de matière lignocellulosique par un gaz contenant du dioxyde d'azote.

Publication

EP 0309998 B1 19940223 (EN)

Application

EP 88115896 A 19880927

Priority

SE 8703718 A 19870928

Abstract (en)

[origin: EP0309998A2] Method of activating aqueous lignocellulosic material with a gas containing nitrogen oxide, followed by a delignification stage for the purpose of obtaining a high quality end product with no or only a slight effect on the environment. In accordance with the inventive method, the lignocellulosic material is brought into contact (18) with an oxygen-containing gas (19), and activating gas is separated from the lignocellulosic material during and/or subsequent to the activating process (9). The method is characterized by a) controlling the supply of oxygen-containing gas (12) such that the separated gas (27) contains at least 2 kg nitric oxide (NO) calculated on 1000 kg of dry lignocellulosic material, and by b) reacting the separated gas (27) in one or more stages (26) with absorption solution (25) whose original pH lies within the range 3-13.5, and by passing (28) the gas purified with the aid of absorption solution to atmosphere, or to a destruction plant optionally subsequent of further purification of the gas.

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