

Title (en)

PROCESS FOR EXTRACTING CHEMICALS AND ENERGY FROM CELLULOSE SPENT LIQUOR

Title (de)

VERFAHREN ZUR RÜCKGEWINNUNG VON CHEMIKALIEN UBD ENERGIE AUS DER ABLAUGE DER ZELLSTOFFHERSTELLUNG

Title (fr)

PROCEDE D'EXTRACTION DE PRODUITS CHIMIQUES ET D'ENERGIE DE LIQUEUR CELLULOSIQUE USEE

Publication

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Application

EP 97914715 A 19970319

Priority

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Abstract (en)

[origin: WO9736043A1] Process for extracting chemicals and energy from black liquor which is obtained during the production of paper pulp by means of the chemical digestion of fibre raw material, in which the black liquor is gasified in a reactor at a pressure exceeding 5 bar, with the products formed principally consisting of CO, CO₂, CH₄, H₂ and H₂S in gas form and Na₂CO₃, NaOH and Na₂S in the form of drops of smelt, and the resulting mixture of gas and smelt is cooled by means of direct contact with a water-containing liquid, in association with which the smelt drops are separated off and dissolved with the formation of green liquor, after which the gas is separated off for energy extraction. In the process, the said black liquor is supplied to the reactor at a dry substance content which exceeds 80 %. A major portion of the green liquor which is formed is causticized with an optimized, low consumption of lime.

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