

Title (en)

METHOD AND APPARATUS FOR DETERMINING CARBONATE/SULFIDE CONCENTRATION.

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DER KARBONAT-/SULFIDKONZENTRATION.

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE DETERMINER LA CONCENTRATION DE CARBONATE/SULFURE.

Publication

**EP 0143844 A4 19850926 (EN)**

Application

**EP 84902259 A 19840516**

Priority

US 49586383 A 19830518

Abstract (en)

[origin: WO8404597A1] A process and apparatus for measuring carbonate and sulfide concentrations in white and green pulp mill liquor and in the slaker/causticizing cells and controlling the causticizing reaction and other stages using this information. Specifically the causticizing control logic is based on determining the concentration of sodium carbonate and sodium sulfide in the green liquor, in the white liquor-mud slurry at the slaker (S) or first causticizer (C1) and in the white liquor being sent to the digester house and using this information to control the entire process. The apparatus takes a sample from an appropriate line, filters the sample if necessary, takes a measured quantity, reacts that measured quantity with an acid to generate hydrogen sulfide and carbon dioxide and measures the quantities of these gases in a gas chromatograph (GC). The apparatus has four main circuits: the filter circuit, the sampling circuit, the reactor circuit and the gas chromatograph circuit. A mud separation circuit is also utilized if the apparatus is to analyze liquor from the slaker or causticizing cells.

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CPC (source: EP)

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Citation (search report)

- [A] TAPPI, vol. 58, no. 6, June 1975, pages 59-61; H.B.H. COOPER, Jr.: "Continuous measurement of sodium sulfide in black liquor"
- TAPPI, vol. 58, no. 6, June 1975, pages 59-61; H.B.H. COOPER, Jr.: "Continuous measurement of sodium sulfide in black liquor"
- See references of WO 8404597A1

Cited by

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