Title (en)

A method of controlling a pressure-tight vessel for treating cellulosic pulp.

Title (de)

Verfahren zum Regeln eines Druckbehälters zur Behandlung von Zellstoff.

Title (fr)

Méthode de régulation d'un récipient sous pression pour le traitement de pulpe cellulosique.

Publication

EP 0055701 A1 19820707 (EN)

Application

EP 81890204 A 19811218

Priority

US 22181280 A 19801231

Abstract (en)

Cellulosic pulp is treated to obtain simultaneous pulp flow and consistency control, utilizing a pressure-tight vessel (10) having a pulp inlet (12), pulp outlet (13), treatment liquid inlet (26), liquid extraction outlet (17), and movable screen (18) adjacent the liquid outlet (17). Pulp is fed into the pulp inlet (12) at a particular flow rate, and treated pulp is withdrawn through the pulp outlet (13) at a particular flow rate. The flow rate of the pulp being withdrawn is set and controlled by controlling the flow rate of the pulp fed into the pulp inlet (12). Liquid is withdrawn through the liquid outlet (17) at a particular flow rate, and the consistency of the pulp being withdrawn through the pulp outlet (13) is set and controlled by controlling the flow rate of liquid from the liquid outlet (17). Treatment liquid is fed into the liquid inlet (26), the nature of the pulp treatment and the qualities of the pulp being controlled by controlling the temperature and chemical makeup of the pulp introduced into the liquid inlet (26). A plurality of vessels (10, 10 min , 10 sec) may be provided with the pulp withdrawn from each vessel fed to the subsequent vessel, and the liquid withdrawn from each vessel fed to the preceding vessel.

IPC 1-7

D21C 9/02

IPC 8 full level

D21C 9/02 (2006.01); **D21C 9/18** (2006.01)

CPC (source: EP)

D21C 9/02 (2013.01)

Citation (search report)

- US 4041560 A 19770816 - JACOBSEN FINN
- US 3398412 A 19680827 - ENSIO AREMAA TOIVO
- GB 1566099 A 19800430 - LARGO LINTEC LTD
- US 3807202 A 19740430 - GUNKEL K
- FR 1468440 A 19670203 - KAMYR AB
- Tappi, Journal of the Technical Association of the Pulp and Paper Industry, Volume 60, No. 9 September 1977 Atlanta (GA) US A. TOMIAK et al.: "Countercurrent Pulp Washing Theory: an Attempt at a Synthesis", pages 148-150 * the entire article *

Cited by

EP0343393A3; EP0356415A3; FR2639050A1; WO2022200687A1

Designated contracting state (EPC)

AT DE FR SE

DOCDB simple family (publication)

EP 0055701 A1 19820707; **EP 0055701 B1 19851121**; AT E16614 T1 19851215; BR 8108558 A 19821019; CA 1173603 A 19840904; DE 3173030 D1 19860102; FI 69139 B 19850830; FI 69139 C 19851210; FI 814173 L 19820701; JP S57133292 A 19820817; NO 157626 B 19880111; NO 157626 C 19880420; NO 814440 L 19820701

DOCDB simple family (application)

EP 81890204 A 19811218; AT 81890204 T 19811218; BR 8108558 A 19811230; CA 392616 A 19811218; DE 3173030 T 19811218; FI 814173 A 19811228; JP 21619381 A 19811231; NO 814440 A 19811228