

Title (en)

Totally submerged pressurized pulp washer and method of operation thereof

Title (de)

Vollständig eingetauchter, unter Druck stehender Zellstoffwäscher und Verfahren zu dessen Betrieb

Title (fr)

Laveur de pâte à papier pressurisé et complètement submergé, et son procédé d'utilisation

Publication

**EP 0955405 A1 19991110 (EN)**

Application

**EP 99630042 A 19990430**

Priority

US 7289298 A 19980505

Abstract (en)

A pulp mat is formed on a surface of a permeable rotating drum (107) disposed in a pressurized liquid filled washing apparatus (101). Pressurized washing liquid (111) is delivered under the force of gravity or a hydrostatic head from a wash liquid reservoir (112). The wash liquid reservoir includes both wash liquid and gas (113) supplied from a filtrate reservoir. The gas/liquid interface in the wash liquid reservoir is hydraulically disposed above the top of the washer vat (102) to thereby provide a hydrostatic head between the wash liquid reservoir and the washer vat. The interface is monitored and used to control the speed of the rotating drum. In the event the gas/liquid interface rises above a predetermined optimum value for the current operating speed of the drum, the speed of the drum is increased in order to avoid mat collapse and optimize washing efficiency. In the event the gas/liquid interface drops below a predetermined optimum level, the speed of the drum is reduced to increase washing efficiency.

<IMAGE>

IPC 1-7

**D21C 9/06**; B01D 33/073; B01D 33/60

IPC 8 full level

**D21C 9/06** (2006.01)

CPC (source: EP)

**D21C 9/06** (2013.01)

Citation (search report)

- [A] US 2805773 A 19570910 - MECKLIN ROBERT W, et al
- [A] DE 4428515 A1 19960314 - HIRSCHMANN SIEGFRIED [DE]
- [A] WO 9010750 A1 19900920 - GREEN BAY PACKAGING INC [US]
- [A] WO 9308518 A1 19930429 - INGERSOLL RAND CO [US]
- [DA] US 4827741 A 19890509 - LUTHI OSCAR [US]

Designated contracting state (EPC)

AT DE ES FI SE

DOCDB simple family (publication)

**EP 0955405 A1 19991110**; CA 2270382 A1 19991105

DOCDB simple family (application)

**EP 99630042 A 19990430**; CA 2270382 A 19990428