

Title (en)
Refining pulp

Title (de)
Scheibenmühle für Papierfaserstoff

Title (fr)
Raffineur de pâte à papier

Publication
EP 0919662 A3 20000426 (EN)

Application
EP 98309446 A 19981118

Priority
GB 9724750 A 19971125

Abstract (en)
[origin: GB2331469A] A pulp refiner 10 incorporates at least one rotatable disc 12 connected to a drive shaft 14. Stock consisting of pulp in water is supplied to the refiner through an inlet 22 causing the stock to pass between the rotating disc 12 and an adjacent face of a stator disc 38 to refine the pulp. The rotor disc 12 is caused to rotate sequentially faster and slower than the surrounding stock in order to assist the shredding, opening and fibrillating of the pulp. The refining process is maximised by inducing resonance of the rotor disc 12 in the same circumferential direction as its rotation, with the flexure that permits such resonance coming from slight torsional movement of the shaft 14. The resonance is monitored and consequently adjusted to maximise circumferential vibration.

IPC 1-7
D21D 1/30

IPC 8 full level
D21D 1/30 (2006.01)

CPC (source: EP)
D21D 1/30 (2013.01)

Citation (search report)

- [X] WO 9110904 A1 19910725 - PULP PAPER RES INST [CA]
- [X] WO 8606770 A1 19861120 - SUNDS DEFIBRATOR [SE]
- [A] CH 355770 A 19610731 - FORSCH INST PROFESSOR ING CHEM [CH]
- [A] US 4627578 A 19861209 - WHYTE DONALD M [NZ]
- [A] GB 891152 A 19620314 - PETER WILLEMS
- [A] CA 1207572 A 19860715 - LEITH WILLIAM C
- [A] EP 0006315 A1 19800109 - PULP PAPER RES INST [CA], et al

Cited by
CN111373091A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
GB 2331469 A 19990526; GB 9724750 D0 19980121; EP 0919662 A2 19990602; EP 0919662 A3 20000426

DOCDB simple family (application)
GB 9724750 A 19971125; EP 98309446 A 19981118