

Title (en)

Device and method for mixing a liquid into a fibrous suspension

Title (de)

Anordnung und Verfahren zum Einmischen einer Flüssigkeit in eine Papierfaserstoffsuspension

Title (fr)

Dispositif et procédé de mélange d'un liquide dans une suspension

Publication

EP 1467018 B1 20090429 (DE)

Application

EP 04400015 A 20040316

Priority

DE 10317865 A 20030409

Abstract (en)

[origin: EP1467018A1] A paper making assembly has a pipe that feeds a supply of suspended cellulose, into which a second fluid is admixed via transverse lances with a series of inlet apertures (7). The size chosen for the inlets is in proportion to the volumetric flow of suspended cellulose. The inlet holes are located at irregular intervals along the lance. The interval between the adjacent holes decreases with increasing local volumetric flow. The dosing lances form a transverse 90 cruciform array within the pipe. One or both lances has an inlet for water of dilution. Also claimed is a commensurate operating process in which water is admixed at a flow speed of 1-4 m/s and the lance additive is admitted at a speed of 2-10 m/s, resulting in a combined incoming exit speed from the lance in the range 0.2 to 5 m/s.

IPC 8 full level

D21F 1/08 (2006.01); **B01F 5/04** (2006.01); **D21F 1/06** (2006.01); **D21F 1/66** (2006.01); **B01F 5/06** (2006.01)

CPC (source: EP)

B01F 25/3131 (2022.01); **B01F 25/3132** (2022.01); **B01F 25/31322** (2022.01); **B01F 25/31331** (2022.01); **B01F 25/42** (2022.01)

Cited by

EP3095528A3; CN103402618A; US9364802B2; WO2012117003A1; JP2014506832A

Designated contracting state (EPC)

AT CH DE FI LI SE

DOCDB simple family (publication)

EP 1467018 A1 20041013; **EP 1467018 B1 20090429**; AT E430215 T1 20090515; DE 10317865 A1 20041021; DE 20321803 U1 20100408; DE 502004009406 D1 20090610

DOCDB simple family (application)

EP 04400015 A 20040316; AT 04400015 T 20040316; DE 10317865 A 20030409; DE 20321803 U 20030409; DE 502004009406 T 20040316