

Title (en)

Method and apparatus for mixing fluids into fluid media

Title (de)

Verfahren und Vorrichtung zum Einmischen von Fluiden in fließfähige Medien

Title (fr)

Procédé et dispositif de mélange de substances fluides dans des matériaux fluides

Publication

EP 1347092 A1 20030924 (DE)

Application

EP 03005018 A 20030306

Priority

AT 4312002 A 20020321

Abstract (en)

In a process to admix a fluid into a fibrous suspension of e.g. cellulose, the fluid is esp. admixed at high relative speed and at a higher temperature of e.g. 180degreesC. The admixed fluid is e.g. steam which heats the medium to e.g. 180degreesC. In a further embodiment, the admixed fluid is a reactive gas e.g. oxygen, ozone or chlorine. In a further alternative embodiment, the admixed fluid is e.g. water, peroxide, caustic solution, acid, additives, catalysts or other additive agents. The steam, gas or liquid may be admixed at high speed by themselves or in conjunction with each other. Also claimed is a commensurate assembly with e.g. a rotor (10) located between the incoming fluid and the fibrous suspension. A jet (16) distribution (15) array is located in the zone where high relative speeds pertain. The rotor has a hollow shaft (13) feeding the jets (16) with the incoming fluid. The rotor (10) assembly is located within a pipe bend or tank immediately prior to a reactor vessel.

Abstract (de)

Die Erfindung betrifft ein Verfahren zum Einmischen von Fluiden in fließfähige Medien, beispielsweise Faserstoffsuspensionen. Sie ist vornehmlich dadurch gekennzeichnet, dass das einzumischende Fluid mit einer hohem Relativgeschwindigkeit zum fließenden Medium in dieses Medium, z.B. Faserstoffsuspension, eingemischt wird. Weiters betrifft die Erfindung auch eine Vorrichtung zur Durchführung des Verfahrens. <IMAGE>

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Citation (search report)

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