

Title (en)

Method and device for addition of a fluid medium in the suspension flow in a headbox

Title (de)

Verfahren und Vorrichtung zur Zudosierung eines fluiden Mediums in einen Suspensionsstrom eines Stoffauflaufes

Title (fr)

Procédé et dispositif pour le dosage d'un milieu fluide dans l'écoulement d'une suspension dans une caisse de tête

Publication

EP 1033436 A3 20010321 (DE)

Application

EP 99118683 A 19990922

Priority

DE 19908898 A 19990302

Abstract (en)

[origin: EP1033436A2] To deliver a dosed feed of a fluid medium into the turbulence channels of a stock inlet, at a papermaking machine, at least 50% of the total pressure loss is generated in the turbulence channel downstream of the dosing by stepped changes (5,7,8,9) in the channel cross section. The dosed feed (3) is between the channel entry and outlet, in at least one channel (1). An Independent claim is included for a papermaking machine stock inlet where a part of the flow resistance in at least one channel, after the dosing point, is at least 50% or 50-60% and maximum 75% of the total channel resistance. Preferred Features: The entry into at least one channel with a dosing feed has at least one chamfer (4) with a depth (t) of 2-10 mm and preferably 4-6 mm, and with a chamfer angle (α) of 20-80 degrees . At least one channel with a dosing feed has an entry with a venturi jet contour. At least one channel with a dosing feed has a corrugated contour downstream of the dosing feed point. All the channels preferably have a dosing feed point, distributed evenly across the machine width.

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D21F 1/02

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CPC (source: EP US)

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Citation (search report)

- [A] EP 0635599 A1 19950125 - VALMET PAPER MACHINERY INC [FI]
- [DA] DE 19632673 A1 19980219 - VOITH SULZER PAPIERMASCH GMBH [DE]

Cited by

EP1195463A3; CN102947504A; WO2011088888A2; WO2011160865A3; US9416497B2

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