

Title (en)  
SUSPENSION EQUALIZER

Title (de)  
SUSPENSIONSEGLISATOR

Title (fr)  
EGALISEUR DE SUSPENSION

Publication  
**EP 1005587 B1 20021218 (DE)**

Application  
**EP 99939914 A 19990619**

Priority  
• DE 9901803 W 19990619  
• DE 29811054 U 19980623

Abstract (en)  
[origin: WO9967460A1] A feed line (10) for supplying a suspension in the distribution system (20) of the stock flow (30) of a paper machine is provided with a suspension equalizer (40) arranged upstream from the distribution system (20) and connected thereto by means of a straight feed piece. The suspension equalizer acts as a turbulence generator, whereby it sets the suspension into a state of turbulence with such force that the suspension is homogenized and the acceleration profile of the suspension is equalled out inside the cross-section of the feed line. This also enables optimum stock flow conditions to be created directly prior to the stock flow or even with relatively long feed lines running through windings or curves in order to meet the quality requirements for paper production. In one preferred embodiment, the turbulence generator consists of a tube section that is similar in shape to a venturi tube with an abruptly reduced cross section (42), followed by a gradual expansion of said cross section (45).

IPC 1-7  
**D21F 1/02**; **D21F 1/06**

IPC 8 full level  
**D21F 1/00** (2006.01); **D21F 1/02** (2006.01); **D21F 1/06** (2006.01)

CPC (source: EP)  
**D21F 1/0018** (2013.01); **D21F 1/02** (2013.01); **D21F 1/06** (2013.01)

Citation (examination)  
EP 0953677 A2 19991103 - VOITH SULZER PAPIERTECH PATENT [DE]

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**WO 9967460 A1 19991229**; AT E230045 T1 20030115; DE 29811054 U1 19980917; DE 59903822 D1 20030130; EP 1005587 A1 20000607; EP 1005587 B1 20021218; TR 200000485 T1 20001121

DOCDB simple family (application)  
**DE 9901803 W 19990619**; AT 99939914 T 19990619; DE 29811054 U 19980623; DE 59903822 T 19990619; EP 99939914 A 19990619; TR 200000485 T 19990619