

Title (en)

Device and procedure for throtteling a fluidal pulp slurry without getting choked

Title (de)

Vorrichtung und Verfahren zur verstopfungsfreien Drosselung einer fluiden Suspensionsströmung

Title (fr)

Dispositif et procédé pour l'étranglement d'un écoulement d'une suspension fluide sans obstruction

Publication

EP 0633416 B1 19970827 (DE)

Application

EP 94109147 A 19940615

Priority

- DE 4322321 A 19930705
- DE 4402516 A 19940128

Abstract (en)

[origin: EP0633416A1] The throttle valve, for a fluid flow and especially a dispersion of solids, has a fluid feed to the passage surface which imposes a rotary flow component in relation to the main flow direction line and around it. Also claimed is a feed system operation, where the fluid flow is given a rotary component round the main flow line, for a throttling cross-section with a rotary symmetrical shape.

IPC 1-7

F16K 47/06; F16K 47/12; F16K 47/00

IPC 8 full level

D21F 1/06 (2006.01); **F15D 1/02** (2006.01)

CPC (source: EP)

D21F 1/022 (2013.01); **D21F 1/06** (2013.01); **F15D 1/02** (2013.01)

Cited by

WO2011134681A1; WO2011095251A1; CN103836206A; EP2230353A1; CN101838949A; DE202009002792U1; WO9967460A1; WO2011095250A1; DE102010001557A1; DE102010028408A1; DE102010028403A1; WO2011134683A1; DE102010001555A1; DE102010028404A1; WO2011134682A1

Designated contracting state (EPC)

AT CH FR GB IT LI SE

DOCDB simple family (publication)

EP 0633416 A1 19950111; **EP 0633416 B1 19970827**; AT E157434 T1 19970915; AT E191266 T1 20000415; CA 2127408 A1 19950106; CA 2127408 C 20010918; DE 9421889 U1 19970227; FI 102779 B1 19990215; FI 102779 B 19990215; FI 943199 A0 19940704; FI 943199 A 19950106; JP 2995712 B2 19991227; JP H0881891 A 19960326

DOCDB simple family (application)

EP 94109147 A 19940615; AT 94109147 T 19940615; AT 96118580 T 19940615; CA 2127408 A 19940705; DE 9421889 U 19940128; FI 943199 A 19940704; JP 15344994 A 19940705