

Title (en)

High velocity fluid abrasive jet.

Title (de)

Flüssigkeitsschleuderstrahl mit grosser Geschwindigkeit.

Title (fr)

Jet abrasif liquide à haute vitesse.

Publication

EP 0110529 A2 19840613 (EN)

Application

EP 83306212 A 19831013

Priority

US 43600282 A 19821022

Abstract (en)

In method and apparatus for producing a coherent stream of high velocity abrasive laden liquid, the method includes allowing particles of abrasive to assume the direction and velocity of a high velocity jet (22) of liquid. The method allows concentration of particles in the centre of the flow of liquid to reduce nozzle wear and increase cutting efficiency. The apparatus includes a nozzle (21) having a converging section (26, 27) attached to a straight section (28) that is sufficiently large that the abrasive particles approach the velocity of the fluid jet before leaving the exit (29) of the nozzle.

IPC 1-7

B24C 5/04

IPC 8 full level

B24C 5/02 (2006.01); **B24C 5/04** (2006.01); **B26F 3/00** (2006.01)

CPC (source: EP)

B24C 5/04 (2013.01)

Cited by

EP0983823A1; TR28484A; EP0582191A1; US5462605A; EP0375887A3; EP0317296A3; DE19640921C1; US6012653A; EP0990487A1; FR2783735A1; FR2584641A1; CN102672625A; FR2685027A1; US5558562A; US5178496A; US4878785A; CN114033413A; US6390899B1; US10427752B2; WO8606311A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0110529 A2 19840613; **EP 0110529 A3 19851016**; **EP 0110529 B1 19891004**; AT E46846 T1 19891015; AU 1997883 A 19840503; AU 566151 B2 19871008; CA 1231235 A 19880112; DE 3380663 D1 19891109; JP H01114267 U 19890801; JP H0344452 Y2 19910918; JP S59134664 A 19840802; NO 159580 B 19881010; NO 159580 C 19890118; NO 833847 L 19840424; ZA 837483 B 19841128

DOCDB simple family (application)

EP 83306212 A 19831013; AT 83306212 T 19831013; AU 1997883 A 19831007; CA 438315 A 19831004; DE 3380663 T 19831013; JP 16120388 U 19881212; JP 19747583 A 19831021; NO 833847 A 19831021; ZA 837483 A 19831006