

Title (en)
High pressure liquid cutting apparatus.

Title (de)
Hochdruckflüssigkeitsschneidgerät.

Title (fr)
Appareil de découpe par liquide à haute pression.

Publication
EP 0119338 A1 19840926 (EN)

Application
EP 83301496 A 19830317

Priority
EP 83301496 A 19830317

Abstract (en)
A high pressure liquid cutting apparatus comprises a generally cylindrical body (2) in which a frusto-conical mixing chamber (10) is defined. A nozzle 9 of internal diameter 0.5-4 mm directs water at very high pressure into the mixing chamber (10) causing abrasive material to be sucked into the mixing chamber via inlets (11 and 12). The abrasive material is entrained by the jet of water and the combined jet exits via an outlet passageway 18 defined in an abrasive resistant insert 17. The axes of the inlets are offset from the axis of the mixing chamber.

IPC 1-7
B26F 3/00

IPC 8 full level
B24C 5/04 (2006.01)

CPC (source: EP)
B24C 5/04 (2013.01)

Citation (search report)
• [X] DE 2928698 A1 19810219 - NAT RES DEV
• [A] CH 567907 A5 19751015 - BENDIX CORP
• [A] DE 2807727 A1 19790830 - PEINIGER ERNST GMBH
• [A] FR 2421679 A1 19791102 - LAMBERT IND [FR]
• [A] GB 1183342 A 19700304 - ROTO FINISH LTD

Cited by
US7445058B2; US4768709A; FR2802553A1; US4708214A; GB2579769B; EP1527820A1; EP1908551A3; EP1908552A3; US4872293A; US5018317A; US4711056A; US6942167B2; US7419014B2; US6668436B2; US8210908B2; US7448151B2; WO0224998A3; WO2016071866A1; WO2005038189A1; WO0144553A1; WO2006085060A3; US7934977B2; US8147293B2; US7547292B2; US7322433B2; US7464630B2; US7703363B2

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

DOCDB simple family (publication)
EP 0119338 A1 19840926

DOCDB simple family (application)
EP 83301496 A 19830317