

Title (en)  
ABRASIVE HEADS WITH INSERTED JET

Title (de)  
SCHLEIFKÖPFE MIT EINGESETZTEM STRAHL

Title (fr)  
TÊTES ABRASIVES AVEC JET INSÉRÉ

Publication  
**EP 3569359 A1 20191120 (EN)**

Application  
**EP 19174110 A 20190513**

Priority  
CZ 2018000226 W 20180515

Abstract (en)  
An abrasive head with inserted jet (29) for cleaning/removing material surfaces and splitting/cutting materials by a liquid beam (23) enriched with solid abrasive particles to extend the tool lifetime by eliminating damage to the liquid jet's aperture by the abrasive, avoid degrading the abrasive inside the tool and increase the cutting power and flow efficiency.

IPC 8 full level  
**B24C 7/00** (2006.01); **B24C 5/04** (2006.01)

CPC (source: EP)  
**B24C 5/04** (2013.01); **B24C 7/0076** (2013.01)

Citation (applicant)  

- US 4648215 A 19870310 - HASHISH MOHAMED A [US], et al
- EP 2801442 A1 20141112 - BIESSE SPA [IT]
- US 5144766 A 19920908 - HASHISH MOHAMED A [US], et al
- JP H0349899 A 19910304 - ELECTRIC POWER DEV CO, et al
- CN 205310080 U 20160615 - HU CANGHAI
- EP 2853349 A1 20150401 - WATER JET SWEDEN AB [SE]
- EP 0873220 A1 19981028 - SAECHSISCHE WERKZEUG UND SONDE [DE]
- US 2016129551 A1 20160512 - KATA AKIRA [JP]
- CZ 2014754 A 20141105

Citation (search report)  

- [L] EP 3539721 A1 20190918 - PTV SPOL S R O [CZ], et al
- [X] EP 2321093 B1 20130102 - FLOW INT CORP [US]
- [X] US 5551909 A 19960903 - BAILEY DONALD C [US]
- [X] DE 4313704 A1 19941103 - FRAUNHOFER GES FORSCHUNG [DE]
- [X] DE 4209353 A1 19930930 - ABREX OBERFLAECHEENTECHNIK GMBH [DE]
- [X] US 2040715 A 19360512 - SMITH ELMO V
- [XI] US 6077152 A 20000620 - WAREHIME KEVIN S [US]
- [A] WO 2016071866 A1 20160512 - INST OF GEONICS AS CR V V I [CZ]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3569359 A1 20191120**

DOCDB simple family (application)  
**EP 19174110 A 20190513**