

Title (en)
Excavating tool for rock, minerals etc

Title (de)
Abtragwerkzeug zum Lösen von Gestein, Mineralien und dgl.

Title (fr)
Machine d'excavation de roches, de minéraux, etc...

Publication
EP 1291490 A3 20030521 (DE)

Application
EP 02018641 A 20020820

Priority
CH 17032001 A 20010906

Abstract (en)
[origin: EP1291490A2] A cutting tool is positioned adjacent to the rock, with the rotatable hub of the tool facing the clear surface of the rock. The hub is then urged along a path in transverse relationship to its axis of rotation, causing the cutting elements of the tool to undercut adjacent portions of the rock. An Independent claim is also included for a rock excavator.

IPC 1-7
E21D 9/10; **E21C 25/18**; **E21D 9/00**; **E21C 35/00**

IPC 8 full level
E02F 5/08 (2006.01); **E21C 27/02** (2006.01)

CPC (source: EP US)
E21C 27/02 (2013.01 - EP US)

Citation (search report)

- [X] DE 4229015 A1 19930408 - BECHEM HANNELORE [DE]
- [X] US 6139477 A 20001031 - BECHEM ULRICH [DE], et al
- [X] EP 0592981 A1 19940420 - BECHEM HANNELORE [DE]
- [X] AU 4863700 A 20010726 - BECHEM HANNELORE
- [A] DE 29923456 U1 20001228 - BECHEM HANNELORE [DE]
- [A] DE 19922206 A1 20001123 - BETEK BERGBAU & HARTMETALL [DE]

Cited by
CN113246314A; US8469458B2; WO2009036781A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
EP 1291490 A2 20030312; **EP 1291490 A3 20030521**; CA 2401463 A1 20030306; US 2003041482 A1 20030306; ZA 200207131 B 20040120

DOCDB simple family (application)
EP 02018641 A 20020820; CA 2401463 A 20020905; US 23565202 A 20020906; ZA 200207131 A 20020905