

Title (en)
Drilling - and/or percussion apparatus

Title (de)
Bohr- und/oder Meisselgerät

Title (fr)
Appareil de forage - et/ou de percussion

Publication
EP 0888851 A3 20030108 (DE)

Application
EP 98810564 A 19980619

Priority
DE 29711704 U 19970704

Abstract (en)
[origin: JPH1177558A] PROBLEM TO BE SOLVED: To make the assembly and the overhaul works of a cushioning means in order to suppress the reaction of a header rapid and easy, and furthermore, to allow to carry out such a work economically. SOLUTION: A drill-chisel device furnishes an impulse mechanism 7, a tool holder 1, and a cushioning means 8 for a header 9 displaceable in the axial direction which is provided between the impulse mechanism 7 and the tool holder 1, and the header 9 cooperates with the insertion end of a tool which can be installed to the tool holder 1. To the cushioning means 8, a stop disk 86, an elastic ring 83, and a transmission element 81 are provided in order reversely to the drill direction. A receiving area in order to receive the stop disk 86 and the elastic ring 83 is provided to the transmission element 81.

IPC 1-7
B25D 17/24

IPC 8 full level
B23B 45/16 (2006.01); **B25D 16/00** (2006.01); **B25D 17/24** (2006.01); **B28D 1/14** (2006.01); **E21C 37/24** (2006.01)

CPC (source: EP US)
B25D 16/003 (2013.01 - EP US); **B25D 16/006** (2013.01 - EP US)

Citation (search report)
• [XA] US 5099926 A 19920331 - FUSHIYA FUSAO [JP], et al
• [XA] US 5407018 A 19950418 - HENRY EDGAR G [US]
• [A] US 4646852 A 19870303 - COTTA GILBERT A [US]
• [A] US 5050687 A 19910924 - PROKHOROV IVAN A [SU], et al

Cited by
CN104249337A; US6241026B1

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

DOCDB simple family (publication)
DE 29711704 U1 19970904; DE 59813790 D1 20061221; EP 0888851 A2 19990107; EP 0888851 A3 20030108; EP 0888851 B1 20061108; JP 4195125 B2 20081210; JP H1177558 A 19990323; US 5996708 A 19991207

DOCDB simple family (application)
DE 29711704 U 19970704; DE 59813790 T 19980619; EP 98810564 A 19980619; JP 18673798 A 19980702; US 11126298 A 19980706