

Title (en)
A HYDRAULIC IMPACT MOTOR

Title (de)
HYDRAULISCHER SCHLAGANTRIEB

Title (fr)
MOTEUR A PERCUSSION HYDRAULIQUE

Publication
EP 0733153 A1 19960925 (EN)

Application
EP 95919255 A 19941213

Priority
• SE 9401196 W 19941213
• SE 9304124 A 19931213

Abstract (en)
[origin: WO9516847A1] A hydraulic impact motor in the form of a water-driven in-hole rock drilling machine has a valve spool (40) that has two equally big and opposite directed control surfaces (A1 and A2). The valve has also a third control surface (A3) which is smaller than the other two and which is continuously under pressure. The third control surface (A3) acts in the same direction as the second control surface (A2). When the first control surface (A1) is under pressure but the second control surface (A2) is not, then the valve is moved in one direction, and when the first and second control surfaces (A1 and A2) is under equal pressure (full pressure or no pressure), then the valve is moved in the other direction by the third control surface (A3).

IPC 1-7
E21B 4/14

IPC 8 full level
E21B 1/00 (2006.01); **E21B 1/26** (2006.01); **E21B 1/28** (2006.01); **E21B 4/14** (2006.01)

CPC (source: EP KR)
E21B 4/14 (2013.01 - EP KR)

Citation (search report)
See references of WO 9516847A1

Designated contracting state (EPC)
DE ES FR GB IE IT

DOCDB simple family (publication)
WO 9516847 A1 19950622; AU 1286495 A 19950703; AU 685891 B2 19980129; DE 69423511 D1 20000420; DE 69423511 T2 20001102; EP 0733153 A1 19960925; EP 0733153 B1 20000315; ES 2146313 T3 20000801; JP 3393139 B2 20030407; JP H09506687 A 19970630; KR 100326485 B1 20020626; KR 960706600 A 19961209; SE 505171 C2 19970707; SE 9304124 D0 19931213; SE 9304124 L 19950614

DOCDB simple family (application)
SE 9401196 W 19941213; AU 1286495 A 19941213; DE 69423511 T 19941213; EP 95919255 A 19941213; ES 95919255 T 19941213; JP 51670195 A 19941213; KR 19960703109 A 19960613; SE 9304124 A 19931213