

Title (en)

Process for determining the operational life and state of a hydraulic impact assembly

Title (de)

Verfahren zur Ermittlung der Betriebsdauer und des Einsatz-Zustands eines hydraulischen Schlagaggregats

Title (fr)

Procédé de détermination de temps d'utilisation et état d'un ensemble de percussion

Publication

EP 1055489 A3 20040204 (DE)

Application

EP 00109684 A 20000506

Priority

DE 19923680 A 19990522

Abstract (en)

[origin: EP1055489A2] The determination method is carried out, so that during the individual, timely successive operational sections of the hydraulic impact set, signals are produced. The number of which is proportional to the strokes carried out by the percussion pistons in a movement direction. The number of signals is continuously totalled up and is stored as a total figure. The respective actual total number of the signals is made identifiable at least intermittently in the form of an indication concerning the application condition.

IPC 1-7

B25D 9/14

IPC 8 full level

B25D 17/00 (2006.01); **B02C 1/00** (2006.01); **B25D 9/26** (2006.01); **E02F 3/96** (2006.01); **E04G 23/08** (2006.01); **E21B 1/26** (2006.01); **E21C 37/24** (2006.01); **F15B 15/20** (2006.01)

CPC (source: EP US)

E02F 3/966 (2013.01 - EP US); **E04G 23/08** (2013.01 - EP US)

Citation (search report)

- [XY] US 5485391 A 19960116 - LINDSTROM MIKKO [US]
- [Y] EP 0461565 A1 19911218 - KRUPP MASCHINENTECHNIK [DE]

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EP1580440A1; NL1025801C2; US7051525B2

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)

US 6510902 B1 20030128; AT E375848 T1 20071115; DE 19923680 A1 20001123; DE 19923680 B4 20040226; DE 50014717 D1 20071129; EP 1055489 A2 20001129; EP 1055489 A3 20040204; EP 1055489 B1 20071017; ES 2293876 T3 20080401; JP 2001017873 A 20010123

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US 57387400 A 20000519; AT 00109684 T 20000506; DE 19923680 A 19990522; DE 50014717 T 20000506; EP 00109684 A 20000506; ES 00109684 T 20000506; JP 2000148420 A 20000519