

Title (en)  
HYDRAULIC IMPACT HAMMER

Publication  
**EP 0522344 A3 19930728 (EN)**

Application  
**EP 92110512 A 19920622**

Priority  
FI 913311 A 19910709

Abstract (en)  
[origin: EP0522344A2] The invention relates to a hydraulic impact hammer, particularly to the housing structure of a hydraulic impact hammer, which structure comprises a hydraulically operated piston (7, 19) and a member (1, 11) for guiding the piston, an impact member (8, 20) and a member (2, 12) for guiding the impact member, the said structure being encased in a protective casing (6, 18). According to the invention, the piston-guiding member (1, 11) and the member (2, 12) guiding the impact member are made separate (3, 15) with respect to each other in order to prevent the proceeding of the tension wave reflected from the impact member (8, 20). However, the piston-guiding member (1, 11) and the member (2, 12) guiding the impact member are interconnected so that the piston-guiding member (1, 11) and the member (2, 12) guiding the impact member are both connected to at least one attenuating element (4, 5; 14, 16, 17). <IMAGE>

IPC 1-7  
**B25D 17/08**

IPC 8 full level  
**B25D 17/08** (2006.01); **B25D 17/24** (2006.01)

CPC (source: EP)  
**B25D 17/08** (2013.01); **B25D 17/24** (2013.01)

Citation (search report)

- [Y] FR 2303645 A1 19761008 - DUSS MASCHF [DE]
- [YP] WO 9112934 A1 19910905 - TAMROCK OY [FI]
- [Y] FR 2209311 A5 19740628 - MACO MEUDON SA [FR]
- [Y] US 3797586 A 19740319 - SMITH A, et al
- [Y] US 4074777 A 19780221 - ANDERSSON STURE ROLAND, et al
- [YP] EP 0471649 A1 19920219 - SIG SCHWEIZ INDUSTRIEGES [CH]
- [A] DE 801565 C 19510111 - TOENNE FRANZ, et al
- [A] US 5018792 A 19910528 - ROUSSIN MICHAEL A [US], et al
- [A] FR 2647870 A1 19901207 - EIMCO SECOMA [FR]
- [A] EP 0080446 A2 19830601 - ATLAS COPCO AB [SE]
- [A] DE 805268 C 19510510 - HAUHINCO MASCHF
- [A] DE 805748 C 19510528 - HAUHINCO MASCHF

Cited by  
US5878823A; US5797463A; WO2008069685A1; WO9420267A1

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

DOCDB simple family (publication)  
**EP 0522344 A2 19930113; EP 0522344 A3 19930728; EP 0522344 B1 19970827**; DE 69221788 D1 19971002; DE 69221788 T2 19980115; ES 2104773 T3 19971016; FI 913311 A0 19910709; FI 913311 A 19930110; FI 91944 B 19940531; FI 91944 C 19940912; JP H05185380 A 19930727; JP H0777709 B2 19950823

DOCDB simple family (application)  
**EP 92110512 A 19920622**; DE 69221788 T 19920622; ES 92110512 T 19920622; FI 913311 A 19910709; JP 20321792 A 19920708