

Title (en)  
TORQUE SPANNERS

Publication  
**EP 0331868 A3 19901010 (DE)**

Application  
**EP 89100363 A 19890111**

Priority  
DE 3808120 A 19880311

Abstract (en)  
[origin: EP0331868A2] A torque spanner contains an elongated outer housing (50), an inner part (54) extending in the outer housing (50) and pivotably connected thereto in the vicinity of a first end of the torque spanner, a gripping part (52) arranged at the second end of the torque spanner, a tool (58) arranged at the first end of the torque spanner on the outer housing (50), and a spring-loaded toggle mechanism (82) which acts between the gripping part (52) and the outer housing (50) carrying the tool (58) and which is released when a torque transmitted to the tool (58) via the gripping part (52), the toggle mechanism (82) and the outer housing (50) is exceeded, and permits a pivoting movement between outer housing (50) and inner part (54). The inner part (54) is rigidly fastened to the gripping part (52). <IMAGE>

IPC 1-7  
**B25B 23/143**

IPC 8 full level  
**B25B 23/142** (2006.01); **B25B 23/143** (2006.01)

CPC (source: EP KR US)  
**B25B 13/00** (2013.01 - KR); **B25B 23/1427** (2013.01 - EP US)

Citation (search report)

- [A] DE 3413761 A1 19851024 - HAZET WERK ZERVER HERMANN [DE]
- [A] US 3357284 A 19671212 - HOOSE WILLIAM E VAN
- [AD] DE 679042 C 19390727 - DEUTSCHE WERKE KIEL AG
- [AD] US 3202021 A 19650824 - LIVERMONT LAWRENCE H
- [A] GB 1366309 A 19740911 - ROBINSON T
- [AD] GB 966947 A 19640819 - MERRITT & COMPANY ENGINEERING
- [A] GB 732013 A 19550615 - FRANK WENDELL LIVERMONT
- [A] US 3581606 A 19710601 - GRABOVAC BOSCO
- [AD] US 4655104 A 19870407 - BLATTNER RAYMOND J [US]
- [A] FR 2230465 A1 19741220 - MOULINOUX ANDRE [FR]

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0331868 A2 19890913; EP 0331868 A3 19901010; EP 0331868 B1 19940413**; AT E104196 T1 19940415; CN 1014781 B 19911120; CN 1036162 A 19891011; DE 3808120 A1 19890928; DE 58907423 D1 19940519; ES 2051895 T3 19940701; IN 170819 B 19920523; JP 2755662 B2 19980520; JP H01271180 A 19891030; KR 0133674 B1 19990501; KR 890014214 A 19891023; US 4898068 A 19900206

DOCDB simple family (application)  
**EP 89100363 A 19890111**; AT 89100363 T 19890111; CN 89101391 A 19890311; DE 3808120 A 19880311; DE 58907423 T 19890111; ES 89100363 T 19890111; IN 212MA1988 A 19880404; JP 5397689 A 19890308; KR 890002805 A 19890307; US 31767489 A 19890301