

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)  
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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]

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