

Title (en)

TOOL APPARATUS, SYSTEM AND METHOD OF USE

Title (de)

WERKZEUGVORRICHTUNG, SYSTEM UND VERWENDUNGSVERFAHREN

Title (fr)

OUTIL, SYSTEME D'OUTIL ET PROCEDE D'UTILISATION

Publication

EP 1532344 A4 20070613 (EN)

Application

EP 03762179 A 20030627

Priority

- US 0320426 W 20030627
- US 39232202 P 20020627
- US 41419102 P 20020927

Abstract (en)

[origin: WO2004003695A2] A tool assembly, system, and method of using the assembly and the system for tightening and standardizing the forces associated with a fastener system and for use in other toll systems. Information is provided to the tool apparatus. The tool apparatus provides verification of the information and verification of the application of the information during use. After use, the tool apparatus outputs the information to provide a historical record of the event. The tool assembly may also include a coupling device. The coupling device receives information and transfers information to the tool. A system may also be provided that includes access to vehicle configuration information that is transmitted to the coupling device and/or tool assembly.

IPC 8 full level

E21B 7/00 (2006.01); **B25B 23/14** (2006.01)

IPC 8 main group level

G06F (2006.01)

CPC (source: EP)

B25B 21/00 (2013.01); **B25B 23/14** (2013.01); **B25B 23/1425** (2013.01)

Citation (search report)

- [X] DE 29724239 U1 20000803 - SALTUS WERK MAX FORST GMBH [DE]
- [X] EP 0119928 A1 19840926 - FACOM [FR]
- See references of WO 2004003695A2

Cited by

TWI419770B; TWI457208B

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004003695 A2 20040108; WO 2004003695 A3 20040624; AT E528481 T1 20111015; AU 2003247812 A1 20040119; AU 2003247812 A8 20040119; CA 2494562 A1 20040108; CN 1678812 A 20051005; EP 1532344 A2 20050525; EP 1532344 A4 20070613; EP 1532344 B1 20111012; MX PA05000187 A 20050715

DOCDB simple family (application)

US 0320426 W 20030627; AT 03762179 T 20030627; AU 2003247812 A 20030627; CA 2494562 A 20030627; CN 03820386 A 20030627; EP 03762179 A 20030627; MX PA05000187 A 20030627