

Title (en)
POWER TOOL

Publication
EP 0066385 A3 19840118 (EN)

Application
EP 82302411 A 19820512

Priority
GB 8115173 A 19810518

Abstract (en)
[origin: GB2098740A] To monitor the quality of threaded joint tightening process being performed by a power tool, the torque on and position of a drive shaft, driven by a motor and adapted to carry tools, are measured so as to determine the angle through which the drive shaft rotates whilst the applied torque rises from a threshold value to its greatest value. The measurements are processed, whilst the tool is in operation, and used to indicate whether the angle of rotation and highest torque value both lie inside predetermined maximum and minimum values. The torque on the shaft is measured by a strain gauge 30 and the angle of rotation by slotted disc 40 and optical sensors 41, 42. The processing is performed digitally and is preferably updated at periodic intervals. <IMAGE>

IPC 1-7
B25B 23/14; G01L 5/24

IPC 8 full level
B25B 23/14 (2006.01); **B25B 23/15** (2006.01)

CPC (source: EP)
B25B 23/14 (2013.01); **B25B 23/15** (2013.01)

Citation (search report)

- FR 2405476 A1 19790504 - ATLAS COPCO AB [SE]
- GB 2033088 A 19800514 - BAKER INT CORP
- US 4091451 A 19780523 - WEINER PETER D, et al
- US 4104780 A 19780808 - SIGMUND JERRY A
- US 3962910 A 19760615 - SPYRIDAKIS EMANUEL G, et al
- US 4233721 A 19801118 - ESHGHY SIAVASH

Cited by
EP0309627A1; EP0266066A1; EP0137738A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
GB 2098740 A 19821124; EP 0066385 A2 19821208; EP 0066385 A3 19840118

DOCDB simple family (application)
GB 8115173 A 19810518; EP 82302411 A 19820512