

Title (en)  
FASTENING TOOL FOR SCREW-COUPLING MEMBER

Title (de)  
BEFESTIGUNGSWERKZEUG FÜR SCHRAUBENKOPPLUNGSELEMENT

Title (fr)  
OUTIL DE FIXATION POUR ÉLÉMENT DE VERROUILLAGE À VIS

Publication  
**EP 3275596 A4 20181205 (EN)**

Application  
**EP 16772593 A 20160325**

Priority  
• JP 2015066621 A 20150327  
• JP 2016059537 W 20160325

Abstract (en)  
[origin: EP3275596A1] [Technical Problem] Provided is a threaded member tightening tool having a function of temporarily tightening screws.  
[Solution to Problem] A motor-driven screwdriver (1) includes a bit holder (18) securely holding a screwdriver bit (16), a drive motor (32) rotationally driving the bit holder, and a control unit (30) controlling the drive of the drive motor. In the motor-driven screwdriver (1), the control unit (30) controls the drive motor (32) such that the bit holder (18) is first rotated forward by a first rotation quantity and then automatically rotated reversely by a second rotation quantity less than the first rotation quantity. The control unit (30) controls the quantity of rotation of the bit holder (32) by controlling the drive time of the drive motor (32). If the forward drive time (first period of time) is set so that the first rotation quantity of the forward drive is a rotation quantity at which the screw will not be seated on a to-be-fastened member, the screw can be temporarily tightened even when using a toothed lock washer or the like, which prevents a once tightened screw from being easily loosened.

IPC 8 full level  
**B25B 21/00** (2006.01); **B25B 23/14** (2006.01); **B25B 23/145** (2006.01); **B25B 23/147** (2006.01)

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Citation (search report)  
• [X] JP H0475879 A 19920310 - HAYASHI TOKEI KOUGIYOU KK  
• [X] WO 2008093418 A1 20080807 - FUJITSU LTD [JP], et al  
• [X] JP H02269579 A 19901102 - DAIHATSU MOTOR CO LTD  
• [X] JP 2003191174 A 20030708 - FUJITSU TEN LTD  
• See references of WO 2016158712A1

Cited by  
US11326706B2; WO2021163612A1; US11920695B2

Designated contracting state (EPC)  
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