

Title (en)  
INSTALLING TOOL FOR WEDGING-TYPE FASTENERS

Publication  
**EP 0195851 B1 19920129 (EN)**

Application  
**EP 85115158 A 19851129**

Priority  
US 71794785 A 19850329

Abstract (en)  
[origin: EP0195851A2] An installing tool having two way drive wrench portion particularly suited for installing wedge-locking type aircraft fasteners. The wrench portion is adapted to be installed on a driving tool. The wrench portion has at least a forwardly and a rearwardly mounted polygonally-shaped opening with a cage in each opening, each cage having a plurality of rollers mounted therein and loosely mounted within the polygonally shaped openings but retained therein. In operation, the wrench portion is placed over the fastener it is desired to install, the main body of the fastener, which may be cylindrical, entering the forward polygonally-shaped opening in the wrench portion and abutting against the rollers thereon which protrude inwardly toward the fastener. A nut portion of the fastener, which may be cylindrical, enters the rear opening. Rotation of the nut portion while holding the main body portion results in installation of the fastener without need for precise alignment of the wrench to the fastener. This is because the loosely mounted cage adjusts for any misalignment and the rollers abut against the walls of the polygonally-shaped opening to wedge or lock the wrench to the fastener. After installation, the relaxation of the engagement of the tool to the fastener allows for easy withdrawal.

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**B25B 31/00**

IPC 8 full level  
**B25B 21/00** (2006.01); **B25B 28/00** (2006.01); **B25B 31/00** (2006.01)

CPC (source: EP)  
**B25B 31/005** (2013.01)

Cited by  
GB2520325A; EP0466609A1; FR2664524A1; EP3603890A4; US11473606B2; US11433511B2; US11975424B2; WO2019246606A1

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