

Title (en)  
TOOL MOUNTING

Publication  
**EP 0152564 B1 19890823 (DE)**

Application  
**EP 84114612 A 19841201**

Priority  
• DE 3405885 A 19840218  
• DE 3414148 A 19840414  
• DE 3431901 A 19840830

Abstract (en)  
[origin: US4597227A] A device for attaching a tool in portable angled grinders, allowing the connection to be released without special accessories. The device consists essentially of a hollow driveshaft, of a spindle that slides inside it, and of a tool-securing point consisting of a mating flange and nut. The nut is loosened by activating the displacing mechanism, which displaces the spindle toward the tool-securing point, lifting the nut, which is connected to the spindle by means of a threaded pin, off of the tool. The nut can then be screwed off by hand.

IPC 1-7  
**B24B 23/02**; **B24B 45/00**

IPC 8 full level  
**B24B 23/02** (2006.01); **B24B 45/00** (2006.01)

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**B24B 23/02** (2013.01 - EP US); **B24B 23/022** (2013.01 - EP US); **B24B 45/006** (2013.01 - EP US); **Y10T 83/9379** (2015.04 - EP US)

Cited by  
DE4103501A1; DE4122320A1; EP2213416A3; DE3826017A1; EP0235598A3; US4735020A; DE3741484C1; US4989374A; DE3642153A1; EP1180416A3; US5263283A; US5157873A; EP0380974A3; DE3902874A1; US5058909A; DE102010064372B4; WO8804219A1; WO2012089638A1; US7344435B2; US7207873B2; DE102007035045A1; US8187058B2; EP2017036A1; EP0495181B1; WO2005102605A1; WO2005063439A1; WO2012089636A1; WO2012089640A1

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DOCDB simple family (application)  
**EP 84114612 A 19841201**; US 21318088 A 19880629; US 68019484 A 19841210