

Title (en)  
Rotatable cutting bit.

Title (de)  
Rotierender Schneidmeissel.

Title (fr)  
Mèche de coupe rotative.

Publication  
**EP 0264015 A1 19880420 (EN)**

Application  
**EP 87114132 A 19870928**

Priority  
US 91633686 A 19861007

Abstract (en)  
A rotatable cutting tool (30) for mounting in the bore (22) of a block comprising an elongate symmetrical body (32) having forward (34) and rearward (36) portions wherein the forward (34) portion terminates in a front end at which there is a cutting tip (44) and the rearward (36) portion is of a generally constant diameter and terminates in a rear end (46). The rearward (36) portion contains a channel adjacent the rear end (46). A resilient retainer (60) surrounds substantially all of the rearward (36) portion and extends rearwardly past the rear end (46). The retainer (60) has an inward projection (74) which is received within the channel so that the elongate body (32) and retainer are retained together. The retainer (60) has an unstressed diameter greater than the diameter of the bore (22) so that when the cutting tool (30) is inserted into the bore (22) the retainer (60) expands against the bore (22) so as to be held therein whereby the body (32) is free to rotate relative to the block (14).

IPC 1-7  
**E21C 35/18**

IPC 8 full level  
**E21C 35/18** (2006.01); **E21C 35/197** (2006.01)

CPC (source: EP)  
**E21C 35/197** (2013.01)

Citation (search report)  
• [A] US 4575156 A 19860311 - HUNTER DAVID L [US], et al  
• [AD] US 4201421 A 19800506 - BESTEN LEROY E DEN [US], et al  
• [AD] US 3519309 A 19700707 - ENGLE EDGAR W, et al

Cited by  
WO2007048455A1; EP2313612A4; US7789468B2; EP0618348A1; DE10142438A1; DE10142438B4; DE9411438U1; US2010320829A1; US8622482B2; DE19720635A1; DE19720635C2; EP0295232A1; US7380888B2; DE202006020765U1; US7922257B2; JP4824761B2; US7922256B2; US11898446B1

Designated contracting state (EPC)  
AT BE DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0264015 A1 19880420; EP 0264015 B1 19900905**; AT E56248 T1 19900915; AU 592017 B2 19891221; AU 7900987 A 19880421; BR 8705346 A 19880524; CA 1301781 C 19920526; DE 3764760 D1 19901011; DK 523087 A 19880408; DK 523087 D0 19871006; ES 2005372 A6 19890301; JP S63161288 A 19880704; ZA 876962 B 19880727

DOCDB simple family (application)  
**EP 87114132 A 19870928**; AT 87114132 T 19870928; AU 7900987 A 19870928; BR 8705346 A 19871001; CA 548028 A 19870928; DE 3764760 T 19870928; DK 523087 A 19871006; ES 8702821 A 19871002; JP 25229387 A 19871006; ZA 876962 A 19870916