

Title (en)  
HOLLOW DRILL

Publication  
**EP 0477253 B1 19930811 (DE)**

Application  
**EP 90909564 A 19900613**

Priority  
AT 145089 A 19890614

Abstract (en)  
[origin: WO9015683A1] A hollow drill with a support tube (1) and a cutter ring (4) or cutter segments (3), preferably with diamond as the abrasive and a metal binder. Between the cutter ring (4) or segments (3) and the support tube (1) is fitted a steel ring (2) which is designed as a gauge ring of which at least a part of the height and circumference have the same outside diameter as the cutter ring (4) or the cutter ring defined by the cutter segments (3). The steel ring (2) is made of hardenable steel or a high-tensile alloy.

IPC 1-7  
**B23B 51/04; B28D 1/14**

IPC 8 full level  
**B23D 61/02** (2006.01); **B24D 7/18** (2006.01); **B28D 1/04** (2006.01)

CPC (source: EP)  
**B23D 61/025** (2013.01); **B24D 7/18** (2013.01); **B28D 1/041** (2013.01)

Cited by  
EP2745965A1; CN104955598A; EP2745964A1; CN104955597A; CN110593775A; US10201858B2; EP2745966A1; CN104981311A; RU2630396C2; RU2630396C9; WO2014096360A1; US10081062B2; WO2014096359A1; WO2014096366A1; US10201860B2; US10717137B2

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

DOCDB simple family (publication)  
**WO 9015683 A1 19901227**; AT E92815 T1 19930815; EP 0477253 A1 19920401; EP 0477253 A4 19920729; EP 0477253 B1 19930811; FI 915434 A0 19911118

DOCDB simple family (application)  
**AT 9000061 W 19900613**; AT 90909564 T 19900613; EP 90909564 A 19900613; FI 915434 A 19911118