

Title (en)  
Drill and or chisel tool

Title (de)  
Bohr- und/oder Meisselwerkzeug

Title (fr)  
Outil de forage et ou de frappe

Publication  
**EP 0937860 B1 20011121 (DE)**

Application  
**EP 98811179 A 19981127**

Priority  
DE 19807394 A 19980221

Abstract (en)  
[origin: EP0937860A1] The head (3) has one or more hard metal inserts which are provided with three star-shaped cutting areas extending from a central part radially to the periphery of the drill head. Between the cutting areas are head grooves (10,12) which are connected to the discharge grooves (6,7). For unhindered transport of drilled-out material, two head grooves (10,12) are connected with a discharge groove (6). The third head groove is connected with the further discharge groove (7).

IPC 1-7  
**E21B 10/44**

IPC 8 full level  
**B23B 51/00** (2006.01); **B28D 1/26** (2006.01); **E21B 10/40** (2006.01); **E21B 10/44** (2006.01); **E21B 10/58** (2006.01)

CPC (source: EP US)  
**E21B 10/40** (2013.01 - EP US); **E21B 10/445** (2013.01 - EP US); **E21B 10/58** (2013.01 - EP US)

Designated contracting state (EPC)  
CH DE DK FR GB LI SE

DOCDB simple family (publication)  
**EP 0937860 A1 19990825; EP 0937860 B1 20011121**; CN 1226627 A 19990825; CN 1313255 C 20070502; CN 1631636 A 20050629; DE 19807394 A1 19990826; DE 59802704 D1 20020221; DK 0937860 T3 20020521; JP 4361983 B2 20091111; JP H11285911 A 19991019; US 6116361 A 20000912

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**EP 98811179 A 19981127**; CN 03142439 A 19990107; CN 99101010 A 19990107; DE 19807394 A 19980221; DE 59802704 T 19981127; DK 98811179 T 19981127; JP 4284699 A 19990222; US 25219199 A 19990218