

Title (en)  
STONE DRILL BIT

Publication  
**EP 0452255 A3 19921028 (DE)**

Application  
**EP 91810185 A 19910321**

Priority  
DE 4011441 A 19900409

Abstract (en)  
[origin: EP0452255A2] The rock drill bit consisting of shank (1) and drill head (2) is provided with a cutting tip (4) as well as cutting pins (5) at the front end (3) of the drill head (2) pointing in the feed direction. The diameter on which the cutting tip (4) is arranged and the diameter on which the cutting pins (5) are arranged form an angle deviating from 90 DEG . An enlargement of the disposal flutes (6) is made possible by the deviation in the angle of both diameters. <IMAGE>

IPC 1-7  
**E21B 10/56**; **E21B 10/58**; **E21B 10/44**

IPC 8 full level  
**B28D 1/14** (2006.01); **E21B 10/26** (2006.01); **E21B 10/44** (2006.01); **E21B 10/56** (2006.01); **E21B 10/58** (2006.01)

CPC (source: EP)  
**E21B 10/445** (2013.01); **E21B 10/56** (2013.01); **E21B 10/58** (2013.01)

Citation (search report)  
[X] DE 3825107 A1 19900125 - HILTI AG [LI]

Cited by  
DE10351183A1; DE19811887A1; EP0943780A3; EP0685629A3; DE10208631A1; EP1340604A3; DE19944406A1; DE19944406C2; EP0778390A3; GB2356164A; DE19964272C2; GB2356164B; DE19734094A1; WO9821442A1; US6446741B1; US7258180B2; EP0943779A2; US6976549B2; US7001120B2; WO9719247A1; WO0188321A1; US6868924B2

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

DOCDB simple family (publication)  
**EP 0452255 A2 19911016**; **EP 0452255 A3 19921028**; **EP 0452255 B1 19941214**; AT E115677 T1 19941215; AU 631054 B2 19921112; AU 7415991 A 19911010; CA 2040052 A1 19911010; CA 2040052 C 19980929; DE 4011441 A1 19911010; DE 59103840 D1 19950126; ES 2066407 T3 19950301; JP 2880584 B2 19990412; JP H04228796 A 19920818; PL 165702 B1 19950131; PL 289787 A1 19911021

DOCDB simple family (application)  
**EP 91810185 A 19910321**; AT 91810185 T 19910321; AU 7415991 A 19910405; CA 2040052 A 19910409; DE 4011441 A 19900409; DE 59103840 T 19910321; ES 91810185 T 19910321; JP 10182691 A 19910408; PL 28978791 A 19910408