

Title (en)  
DRILLING-INJECTION ANCHOR

Publication  
**EP 0355379 A3 19910206 (DE)**

Application  
**EP 89112936 A 19890714**

Priority  
DE 3828335 A 19880820

Abstract (en)  
[origin: EP0355379A2] The invention relates to a drilling-injection anchor (1) having a thread (3) running on the anchor shaft (2) on the circumferential wall side, a drill bit (5) arranged at the front end, cutters (7) allocated to the drill bit (5) and a central channel running in the axial direction, ending in the area of the drill bit (5) and intended for supplying a drilling fluid. So that the drilling-injection anchor (1) does not soften the bore wall during the drilling operation and can thus be used in both compact and sandy, cohesive soils or in loose rock, the invention proposes that the drill bit (5) has a cylindrical hollow body (10) arranged at a distance from the anchor shaft (2) of the drilling-injection anchor (1) and intended for forming an annular space (28), through which fluid can flow, between the circumferential wall (20) of the anchor shaft (2) and the inner wall (19) of the hollow body (10), the hollow body (10) having a length which corresponds to at least approximately the diameter of the drill bit (5). <IMAGE>

IPC 1-7  
**E21D 21/00**

IPC 8 full level  
**E21B 10/60** (2006.01); **E21B 17/10** (2006.01); **E21B 17/18** (2006.01); **E21D 21/00** (2006.01)

CPC (source: EP)  
**E21B 10/60** (2013.01); **E21B 17/1078** (2013.01); **E21B 17/18** (2013.01); **E21D 21/0026** (2013.01); **E21D 21/0053** (2016.01)

Citation (search report)

- [AD] DE 3400182 A1 19850711 - ISCHEBECK FRIEDRICH GMBH [DE]
- [A] US 4055051 A 19771025 - FINNEY JAMES LEE
- [A] US 2743086 A 19560424 - MORRIS ROTH
- [A] US 1518370 A 19241209 - THOMAS MARTIN E
- [A] US 3439757 A 19690422 - ELENBURG WAYLAND D

Cited by  
CN116044312A; RU2720595C1; CN111335923A; AU2008211808B2; US8142109B2; EP0541942A1; US5388655A; WO2008092994A1

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

DOCDB simple family (publication)  
**EP 0355379 A2 19900228; EP 0355379 A3 19910206; EP 0355379 B1 19930303**; AT E86356 T1 19930315; DE 3828335 C1 19891130; DE 58903641 D1 19930408; ES 2039765 T3 19931001

DOCDB simple family (application)  
**EP 89112936 A 19890714**; AT 89112936 T 19890714; DE 3828335 A 19880820; DE 58903641 T 19890714; ES 89112936 T 19890714