

Title (en)

Drilling and chiselling tool with basic body and cutting element

Title (de)

Bohr- und Meisselwerkzeug mit Grundkörper und Schneidkörper

Title (fr)

Outil de forage et de burinage avec corps de base et élément de coupe

Publication

EP 0516581 B1 19980715 (DE)

Application

EP 92810283 A 19920416

Priority

DE 4114271 A 19910502

Abstract (en)

[origin: JPH05124027A] PURPOSE: To provide a drill and chisel tool in which the life of the whole tool is improved by eliminating overload of various parts in operation. CONSTITUTION: The drill and chisel tool which has a steel base 1 has a welded joint 4 which secures a cutting tool 2 made of hard alloy in the recess 3. The cutting tool 2 is secured at the base 1 in such manner as to avoid generation of the peak value of shearing stress at the edge region of the recess 3. For this purpose, a stress relief notch is provided, and the thickness of the welded joint 4 is increased toward the end.

IPC 1-7

E21B 10/58; **B25D 17/02**

IPC 8 full level

B28D 1/14 (2006.01); **B25D 17/02** (2006.01); **E21B 10/58** (2006.01)

CPC (source: EP US)

E21B 10/58 (2013.01 - EP US); **Y10T 408/909** (2015.01 - EP US)

Citation (examination)

- DE 765003 C 19531026 - WALLRAM HARTMETALLWERK, et al
- US 2101376 A 19371207 - HERMANN VOIGTLANDER
- FR 1414023 A 19651015 - FORGES & ATELIERS DU SAUT DU T
- DE 2802119 A1 19780803 - BOART INT LTD
- FR 1006219 A 19520421
- DE 671959 C 19390217 - MEUTSCH VOIGTLAENDER & CO VORM
- CH 272188 A 19501215 - SANDVIKENS JERNVERKS AB [SE]
- FR 981182 A 19510523 - SANDVIKENS JERNVERKS AB
- US 4181187 A 19800101 - LUMEN KARL L G [SE]

Cited by

DE102013108233A1

Designated contracting state (EPC)

CH DE DK FR GB LI SE

DOCDB simple family (publication)

EP 0516581 A2 19921202; **EP 0516581 A3 19930707**; **EP 0516581 B1 19980715**; DE 4114271 A1 19921105; DE 59209416 D1 19980820; DK 0516581 T3 19990419; JP 3426614 B2 20030714; JP H05124027 A 19930521; US 5265989 A 19931130

DOCDB simple family (application)

EP 92810283 A 19920416; DE 4114271 A 19910502; DE 59209416 T 19920416; DK 92810283 T 19920416; JP 11283492 A 19920501; US 87506592 A 19920428