

Title (en)

Rock drill bit for percussion drill or electric hammer.

Title (de)

Gesteinsbohrer für Drehschlagbohrmaschine oder elektrischen Hammer.

Title (fr)

Foret à pierre pour perceuse-frappeuse ou marteau électrique.

Publication

EP 0009838 A1 19800416 (FR)

Application

EP 79200533 A 19790924

Priority

CH 1011578 A 19780928

Abstract (en)

[origin: US4286677A] The bit for drilling stone for use in a hammer drill or an electric hammer comprises a body defining recesses which, in axial section, have a profile at least approximately in the form of an arc of a circle with a radius of between approximately 8 mm and 15 mm. The ratio of the surface area of guide lips each located between two of the recesses in the body of the bit and of the outer cylindrical surface defined by the bit is less than 5%, and preferably of the order of 1 to 2%. The diameter of a tip of the bit, which is provided with a plate of hard metal is equal to the diameter of said cylindrical surface in the vicinity of the plate.

Abstract (fr)

Le foret à pierre est muni de goujures (6,7) présentant, en coupe axiale, un profil au moins approximativement en arc de cercle de rayon compris entre 8 mm et 15 mm environ. Le rapport de la surface des lèvres de guidage (8,9) et de la surface de l'enveloppe cylindrique du foret est inférieur à 5%, de préférence de l'ordre de 1 à 2%. Le diamètre de la tête (3) au niveau de la plaquette en métal dur (4) est égal au diamètre de l'enveloppe cylindrique.

IPC 1-7

B23B 51/02; **B28D 1/26**; **B28D 1/14**

IPC 8 full level

B23B 51/02 (2006.01); **B28D 1/14** (2006.01); **B28D 1/26** (2006.01); **E21B 10/44** (2006.01)

CPC (source: EP US)

E21B 10/445 (2013.01 - EP US); **Y10T 408/9097** (2015.01 - EP US)

Citation (search report)

- FR 2184092 A1 19731221 - SKIL NEDERLAND NV [NL]
- US 3703214 A 19721121 - BOEHM OTTO, et al
- US 3469643 A 19690930 - HORST ROELOF JAN WILLEM TER
- FR 2048559 A5 19710319 - HAWERA PROBST KG HARTMETALL
- CH 446240 A 19671115 - HAWERA PROBST KG HARTMETALL [DE]
- FR 2115828 A5 19720707 - REINHOLDT AS H
- US 2318631 A 19430511 - QUILLIN RICHARD H
- DE 2506611 A1 19760826 - DRESHA GEB BIEBERSDORF URSULA
- FR 1595690 A 19700615
- DE 2159728 A1 19730607 - HELLER GEB

Cited by

FR2589943A1

Designated contracting state (EPC)

AT DE NL SE

DOCDB simple family (publication)

EP 0009838 A1 19800416; **EP 0009838 B1 19821013**; AT E1638 T1 19821015; BE 878960 A 19800116; CH 626557 A5 19811130; DE 2963850 D1 19821118; DE 7927045 U1 19791213; FR 2437921 A1 19800430; FR 2437921 B1 19820723; GB 2035158 A 19800618; GB 2035158 B 19820728; IT 1123326 B 19860430; IT 7922663 V0 19790925; IT 7925978 A0 19790925; US 4286677 A 19810901

DOCDB simple family (application)

EP 79200533 A 19790924; AT 79200533 T 19790924; BE 197280 A 19790924; CH 1011578 A 19780928; DE 2963850 T 19790924; DE 7927045 U 19790924; FR 7924142 A 19790924; GB 7933207 A 19790925; IT 2266379 U 19790925; IT 2597879 A 19790925; US 7954179 A 19790927