

Title (en)
Percussion bit for rock drills.

Title (de)
Schlagbohrkrone für Gesteinsbohrmaschinen.

Title (fr)
Trépan à percussion pour machines de forage de la roche.

Publication
EP 0199040 A1 19861029 (DE)

Application
EP 86103129 A 19860308

Priority
DE 3510048 A 19850320

Abstract (en)
[origin: US4771834A] PCT No. PCT/DE86/00097 Sec. 371 Date Nov. 13, 1986 Sec. 102(e) Date Nov. 13, 1986 PCT Filed Mar. 8, 1986 PCT Pub. No. WO86/05542 PCT Pub. Date Sep. 25, 1986. Percussion drill bit for rock perforators is provided whose frontal face is covered by a plurality of hard-metal studs, whereby a plurality of studs are positioned to form a group, there being several of these groups present and each of the so-called groups being at a distance from one another at least circumferentially and separated through circulation-medium channels, and further provided with at least one axial center channel located roughly in a center of the frontal face and opening into the circulation-medium channels, characterized in that each group consists of only one row of studs (1) arranged on sloped protruding drilling facets (4), in that the drilling facets (4) run against the rotation direction (A) of the drill bit, at an angle with respect to the radius, and in that the circulation-medium channels (2) formed in the frontal face widen starting from the center of the drill bit, radially towards the outside.

Abstract (de)
Um eine Schlagbohrkrone für Gesteinsbohrmaschinen, deren Stirnfläche mit einer Vielzahl von Hartmetall-Stiften besetzt ist, wobei jeweils mehrere Stifte zu einer Gruppe zusammengefügt sind, die so gebildeten Gruppen mindestens in Umfangsrichtung Abstand voneinander aufweisen und durch Strömungsmittelkanäle voneinander getrennt sind, ferner als Strömungsmittelaustritt etwa im Mittelbereich der Stirnfläche ein in die Kanäle ausmündender Axialkanal vorgesehen ist, möglichst leicht nachschleifen und die Bohrleistung erhöhen zu können, wird vorgeschlagen, daß die Gruppen jeweils lediglich aus einer Reihe von Stiften (1) bestehen, die auf angeformten Stegen (4) angeordnet sind.

IPC 1-7
E21B 10/56; **E21B 10/38**

IPC 8 full level
E21B 10/00 (2006.01); **E21B 10/36** (2006.01); **E21B 10/38** (2006.01); **E21B 10/56** (2006.01)

IPC 8 main group level
E21B (2006.01)

CPC (source: EP US)
E21B 10/003 (2013.01 - EP US); **E21B 10/38** (2013.01 - EP US); **E21B 10/56** (2013.01 - EP US)

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US 4771834 A 19880920; AT E67557 T1 19911015; AU 5582386 A 19861013; AU 584181 B2 19890518; BR 8607086 A 19880119; DE 3510048 C1 19860410; DE 3681482 D1 19911024; EP 0199040 A1 19861029; EP 0199040 B1 19910918; FI 874076 A0 19870918; FI 874076 A 19870918; JP S62502269 A 19870903; NO 864383 D0 19861103; NO 864383 L 19861103; OA 08663 A 19881130; SU 1560061 A3 19900423; WO 8605542 A1 19860925

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