

Title (en)

Tool for cutting solid material.

Title (de)

Schneidwerkzeug für feste Materialien.

Title (fr)

Outil à couper des matériaux solides.

Publication

**EP 0395608 A2 19901031 (EN)**

Application

**EP 90850135 A 19900409**

Priority

SE 8901482 A 19890424

Abstract (en)

The present invention relates to a tool for cutting solid material, said tool including a tool body (10) having a supporting surface, and a cutting insert (14) having a generally conical tip portion and a shoulder portion that is intended to rest against the supporting surface, said cutting insert being secured to the tool body, e.g. by brazing. The invention also relates to the cutting insert per se. When a tool of the above-mentioned type is cutting relatively hard, solid material, e.g. sandstone, the cutting insert will be subjected to very high forces, said forces creating a turning moment that gives rise to tensile stresses in certain portions of the the cutting insert. Eventually the turning moment is transferred to the brazing joint between the cutting insert and the tool body. The present invention is characterized in that the cutting insert (14) has a concave portion in between its tip and bottom, said concave portion extending circumferentially around the cutting insert, and that a special type of cemented carbide is used for the cutting insert.

IPC 1-7

**B23B 27/14; C22C 29/08**

IPC 8 full level

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