

Title (en)

Stone cutting tool having diamond segments with variable height, width and length

Title (de)

Steinschneidwerkzeug mit Diamantsegmenten unterschiedlicher Höhe, Breite und Länge

Title (fr)

Outil de coupe de la pierre à segments diamantés dont la hauteur, la largeur et la longueur different d'un segment à l'autre

Publication

**EP 1038647 A1 20000927 (EN)**

Application

**EP 99830160 A 19990322**

Priority

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Abstract (en)

Tool (1) for cutting marble, granite or stone in general comprising a metal core (10), for example a disk or a blade, and a diamond segments (12,14,16) applied by welding to the core, arranged in repeated sequences of three different segments. The segments contained in each sequence have progressively decreasing heights and increasing cutting widths in the cutting direction of the tool. These segments have different lengths to maintain constant their volume and therefore the amount of abrasive material present in each segment. At least one of the segments comprised in a sequence has a central frontal drainage (60,62) made of a longitudinal groove. Abrasive segment (30) comprises at least two different portions (32,34,36), arranged in sequence according to a cutting direction of the tool, each portion having, relative to the portion preceding it in the sequence, respectively lower height and greater cutting width. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

**B23D 61/021** (2013.01); **B23D 61/121** (2013.01); **B28D 1/124** (2013.01); **B28D 1/127** (2013.01)

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