

Title (en)  
STRUCTURE OF CUTTING TIP AND SAW BLADE INCLUDING THE STRUCTURE

Title (de)  
SCHNEIDPLATTENSTRUKTUR UND SÄGEBLATT MIT DIESER STRUKTUR

Title (fr)  
STRUCTURE DE TETE DE COUPE ET LAME DE SCIE COMPORTANT CETTE STRUCTURE

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Application  
**EP 06757613 A 20060502**

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Abstract (en)  
[origin: WO2006118413A1] Disclosed is a saw blade capable of rapid cutting for various objects, such as jewelry, ferrite materials, stone, metallic materials, or ceramic tiles. The shape of the saw blade is modified such that performance and life time of the saw blade are improved. And also the manufacturing process for the saw blade is simplified, thereby reducing the manufacturing cost for the saw blade. The cutting tip is formed at upper and lower surfaces thereof with a mesh pattern, thereby enhancing the cutting performance by 30% as compared with that of a conventional cutting tip. The cutting tip represents superior cooling efficiency so that body of the saw blade is not broken during the cutting process, thereby ensuring safety of a worker and expanding the life time of the saw blade. The life time of the cutting tip is controlled by adjusting the content of diamond powder contained in the segment on the basis of hardness of a metal bond, regardless of the chemical composition and composition ratio of the metal bond contained in the segment. The cutting tip is suitable for various objects to be cut and the saw blade having the cutting tip is easily fabricated according to applications thereof, so that the manufacturing process for the saw blade is simplified and the manufacturing cost for the saw blade is significantly reduced.

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