

Title (en)  
SELF-SHAPING DRILL CUTTING EDGE.

Title (de)  
SELBSTSCHÄRFENDES SCHNEIDELEMENT FÜR BOHRMEISSEL.

Title (fr)  
TAILLANT D'OUTIL DE FORAGE AUTO-AFFUTABLE.

Publication  
**EP 0548163 B1 19940525**

Application  
**EP 91916192 A 19910912**

Priority  
• FR 9011386 A 19900914  
• FR 9100720 W 19910912

Abstract (en)  
[origin: WO9205335A1] Self-shaping disk-shaped cutting edge of a drilling tool, comprising an outer diamond-impregnated polycrystalline layer (22) applied onto a tungsten carbide layer (24), each cutting edge being mounted on a support (18) which is integral with the body (12) of the drilling tool. The cutting edge and/or its support (18) have areas (26) of least resistance, such as grooves, which are likely to cause successive fractures, thereby forming an acute relief angle ( $\theta(a)$ ) with the rock to be drilled (28).

IPC 1-7  
**E21B 10/56**; **E21B 10/62**

IPC 8 full level  
**E21B 10/00** (2006.01); **E21B 10/56** (2006.01); **E21B 10/567** (2006.01); **E21B 10/573** (2006.01); **E21B 10/62** (2006.01)

IPC 8 main group level  
**E21B** (2006.01)

CPC (source: EP US)  
**E21B 10/006** (2013.01 - EP US); **E21B 10/5673** (2013.01 - EP US); **E21B 10/573** (2013.01 - EP US); **E21B 10/62** (2013.01 - EP US)

Designated contracting state (EPC)  
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