

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 ($\phi(a)$) 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)
BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 9205335 A1 19920402; CA 2091676 A1 19920315; DE 69102139 D1 19940630; DE 69102139 T2 19950216; DK 0548163 T3 19940822; EP 0548163 A1 19930630; EP 0548163 B1 19940525; ES 2053336 T3 19940716; FR 2666843 A1 19920320; FR 2666843 B1 19921224; JP H06500836 A 19940127; NO 930907 D0 19930312; NO 930907 L 19930312; US 5301762 A 19940412

DOCDB simple family (application)
FR 9100720 W 19910912; CA 2091676 A 19910912; DE 69102139 T 19910912; DK 91916192 T 19910912; EP 91916192 A 19910912; ES 91916192 T 19910912; FR 9011386 A 19900914; JP 51495791 A 19910912; NO 930907 A 19930312; US 3010993 A 19930312