

Title (en)

Improvements in or relating to elements faced with superhard material

Title (de)

Verbesserungen an Schneidelementen mit einer Oberfläche aus superhartem Werkstoff

Title (fr)

Amélioration des éléments de coupe avec une surface en matériaux extra-dur

Publication

**EP 0893572 B1 20031210 (EN)**

Application

**EP 98305510 A 19980710**

Priority

- GB 9715771 A 19970726
- GB 9811560 A 19980601

Abstract (en)

[origin: EP0893572A1] A preform element, such as a preform cutting element for a rotary drag-type drill bit, includes a facing table (10) of polycrystalline diamond having a front face (15), a peripheral surface, and a rear surface (11) bonded to the front surface of a tungsten carbide substrate (12). The front surface of the substrate is formed with a plurality of recesses (13, 17) into which extend corresponding projections (18, 19) formed on the rear surface of the facing table. The recesses include at least one rebate (13) which extends around only a part of the periphery of the substrate (12) and into which extends a projection (18) on the facing table which provides a part of the peripheral surface of the facing table (10).  
<IMAGE>

IPC 1-7

**E21B 10/56**

IPC 8 full level

**E21B 10/56** (2006.01); **E21B 10/573** (2006.01)

CPC (source: EP)

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Cited by

CN112513409A; US10570668B2; US10577870B2; US6244365B1; WO2020023705A1; WO2020023714A1; WO2012142919A1; US6510910B2; US6513608B2; US11920409B2

Designated contracting state (EPC)

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**EP 0893572 A1 19990127; EP 0893572 B1 20031210**; DE 69820349 D1 20040122; DE 69820349 T2 20041028

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