

Title (en)  
POLYCRYSTALLINE DIAMOND ELEMENT

Title (de)  
ELEMENT AUS POLYKRISTALLINEM DIAMANT

Title (fr)  
ÉLÉMENT DE DIAMANT POLYCRISTALLIN

Publication  
**EP 2403969 A1 20120111 (EN)**

Application  
**EP 10711264 A 20100308**

Priority  
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Abstract (en)  
[origin: WO2010100630A1] An embodiment of a PCD insert comprises an embodiment of a PCD element joined to a cemented carbide substrate at an interface. The PCD element has internal diamond surfaces defining interstices between them. The PCD element further comprises a working surface and a low melting point region adjacent the working surface in which the interstices are at least partially filled with a low melting point metallic material having a melting point of less than about 1,300 degrees centigrade at atmospheric pressure, or less than about 1,200 degrees centigrade at atmospheric pressure. The PCD element includes an intermediate region, the interstices of the intermediate region being at least partially filled with a catalyst material for diamond.

IPC 8 full level  
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