

Title (en)  
Improvements in or relating to elements faced with superhard material

Title (de)  
Schneidelement mit einer Oberfläche aus superhartem Werkstoff

Title (fr)  
Élément de coupe avec une surface en matériaux extra-dur

Publication  
**EP 0738823 B1 20020717 (EN)**

Application  
**EP 96302709 A 19960418**

Priority  
GB 9508226 A 19950422

Abstract (en)  
[origin: EP0738823A2] A preform element, such as a cutting element for a rotary drag-type drill bit, includes a facing table (20) of superhard material having a front face (23), a peripheral surface(29), and a rear surface (27) bonded to a substrate (21) which is less hard than the superhard material. The rear surface (27) of the facing table is integrally formed with a plurality of ribs (25, 26) which project into the substrate (21), and at least major portions of the ribs extend across the rear surface of the facing table in directions which are generally radial with respect to at least one point (28) which is adjacent or outside the peripheral surface (29) of the facing table. <IMAGE>

IPC 1-7  
**E21B 10/56**; F16C 33/04; B05B 1/00; B21C 3/02; F16H 53/06; B23B 27/14

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

CPC (source: EP)  
**E21B 10/5735** (2013.01)

Cited by  
BE1016090A3; EP0893572A1; US6082474A; US9138872B2; US6488106B1

Designated contracting state (EPC)  
BE DE FR IE

DOCDB simple family (publication)  
**EP 0738823 A2 19961023**; **EP 0738823 A3 19971105**; **EP 0738823 B1 20020717**; DE 69622311 D1 20020822; DE 69622311 T2 20030220; GB 2300016 A 19961023; GB 2300016 B 19981202; GB 9508226 D0 19950607; GB 9608077 D0 19960619; ZA 963120 B 19961024

DOCDB simple family (application)  
**EP 96302709 A 19960418**; DE 69622311 T 19960418; GB 9508226 A 19950422; GB 9608077 A 19960418; ZA 963120 A 19960419