

Title (en)
Rock bit.

Title (de)
Gesteinsbohrmeissel.

Title (fr)
Trépan de roche.

Publication
EP 0511547 A2 19921104 (EN)

Application
EP 92106450 A 19920414

Priority
US 69390091 A 19910501

Abstract (en)
A rock bit is disclosed having a plurality of rolling cone cutters each having a gage row of inserts oriented to face the borehole bottom for crushing the same, and a second row of heel gage inserts which are oriented to face the borehole sidewall for scraping the same. The heel row inserts are interleaved between the gage row inserts and the cutting surface profile of the heel row inserts overlaps the cutting surface profile of the gage inserts in order to alleviate most of the scraping action normally encountered by gage inserts. The crowns of the heel row inserts are within four millimeters up hole from the crowns of the gage row inserts. The heel inserts are made of a harder material than the gage row inserts for resisting the scraping action against the sidewall of the borehole. <IMAGE>

IPC 1-7
E21B 10/16; **E21B 10/52**

IPC 8 full level
E21B 10/16 (2006.01); **E21B 10/52** (2006.01)

CPC (source: EP)
E21B 10/16 (2013.01); **E21B 10/52** (2013.01)

Cited by
US6651758B2; RU2473770C1; US5542485A; EP0723066A3; US5589443A; EP0633387A3; US5668092A; GB2273726A; GB2273726B; GB2363143A; GB2363143B; US5819861A; GB2274129A; GB2274129B; US6986395B2; US6374930B1; US6918455B2

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