

Title (en)  
PERCUSSION DRILL

Publication  
**EP 0154778 B1 19871125 (DE)**

Application  
**EP 85100637 A 19850123**

Priority  
DE 8403508 U 19840207

Abstract (en)  
[origin: EP0154778A1] 1. Pneumatically driven percussion drill, in particular deep drill hammer (10), including an outer tube (12) and a passage (18) in an upper cap (14) for connection to a compressed-air source and, if applicable, to boring rods, including a control unit (24) supported in the cap and a central tube (30) joined to the control unit, the central tube being designed as air feeding and air discharging tube having passages (31...38) as well as a gating insert (40), a hollow ram (50) being slidably guided along the insert in the outer tube, and including a lower mounting cap (94) which has an inner profile and which supports, for up-and-down movement, a hollow shaft (86) having a matching outer profile as well as flushing bores, wherein at least one cone (60, 61) is provided or attachable at the crown head (58) and/or at the central tube end and/or inside the ram end.

IPC 1-7  
**E21B 4/14**

IPC 8 full level  
**E21B 1/30** (2006.01); **E21B 4/14** (2006.01)

CPC (source: EP)  
**E21B 4/14** (2013.01)

Cited by  
US7111695B2; CN104897016A; DE102005015886A1; DE102005015886B4; EP0658681A3; EP0244986A3; DE102009038385A1; DE102009038385B4; GB2389133A; GB2389133B; GB2389134A; GB2389134B; DE102009038383A1; DE102009038383A8; DE102009038383B4; US7093671B2; US9016404B2; WO0244511A1; WO0244508A3

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