

Title (en)
Superimposing drilling bit

Title (de)
Bohrkrone zum Überlagerungsbohren

Title (fr)
Trépan de forage superposé

Publication
EP 0563561 B1 19970423 (DE)

Application
EP 93102651 A 19930219

Priority
DE 4211048 A 19920402

Abstract (en)
[origin: EP0563561A1] A superimposing drilling bit, with a head (1) provided with carbide pins (3) or the like and a shank (2) carrying the head (1), the shank (2) having means (4) for the rotationally rigid connection to a driven inner rod string, and the drilling bit having at least one drilling-fluid line (5), can be improved in particular with regard to its maintenance, without dispensing with the directional accuracy and the cutting efficiency, by the head (1) having a plurality of recesses (6) distributed symmetrically over its periphery and by swivel crowns (7) being arranged in the recesses (6) in such a way that they come to lie inside the diameter of the drilling bit in the swung-in state and project beyond the diameter of the drilling bit to a predetermined extent in the swung-out state. <IMAGE>

IPC 1-7
E21B 10/32

IPC 8 full level
E21B 7/20 (2006.01); **E21B 10/32** (2006.01); **E21B 10/38** (2006.01); **E21B 10/56** (2006.01); **E21B 10/62** (2006.01)

CPC (source: EP US)
E21B 7/20 (2013.01 - EP); **E21B 10/327** (2013.01 - EP US); **E21B 10/38** (2013.01 - EP); **E21B 10/56** (2013.01 - EP); **E21B 10/62** (2013.01 - EP)

Cited by
DE102014104516A1; CN100458097C; EP1083293A1; CN110552621A; GB2316964A; US5934394A; GB2316964B; CN1081715C; US6405813B1; US7455126B2; WO2004104362A1; EP2927417A2; WO2023214118A1; US7290624B2; US7726419B2; EP2407630A2; DE102010027544A1; US7546888B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 4211048 C1 19930506; DE 59306230 D1 19970528; EP 0563561 A1 19931006; EP 0563561 B1 19970423; JP H0610582 A 19940118

DOCDB simple family (application)
DE 4211048 A 19920402; DE 59306230 T 19930219; EP 93102651 A 19930219; JP 6235593 A 19930323