

Title (en)  
DRILLING AND/OR CORING TOOL

Title (de)  
KERN- /BOHRWERKZEUG

Title (fr)  
OUTIL DE FORAGE ET/OU DE CAROTTAGE

Publication  
**EP 0944765 B1 20030226 (FR)**

Application  
**EP 97949846 A 19971216**

Priority  
• BE 9700136 W 19971216  
• BE 9601042 A 19961216

Abstract (en)  
[origin: WO9827311A1] A drilling and/or coring tool intended for use particularly oil drilling and/or coring, comprising a body (2) with a substantially cylindrical peripheral surface (3) and an underside (4), as well as blades (5) extending from the underside (4) to the peripheral surface (3). Each of the blades has a leading edge (6) and, if applicable, cutting elements of PDC (7) located in at least one central area (15A) of the underside (4). The longitudinal axes of these elements are disposed at right angles to the rotation axis of the tool (1). Outside of the central area (15A) are situated the following: cutting elements that are secondary and/or made of PDC (10), each with a cutting-edge (8) and which together form the leading edge (6) of the blade (5). The longitudinal axis of these elements is at right angles to the rotation axis. At least one associated cutting element (10A) is located to the rear of at least one of the secondary and/or PDC cutting elements (10) and has a transversal portion of the same shape as that of the secondary or PDC cutting element (10), at least for the portion projecting over the blade (5). The associated cutting element (10) is disposed on the same blade (5).

IPC 1-7  
**E21B 10/54**; **E21B 10/00**; **E21B 10/48**

IPC 8 full level  
**E21B 10/00** (2006.01); **E21B 10/42** (2006.01); **E21B 10/43** (2006.01); **E21B 10/48** (2006.01); **E21B 10/54** (2006.01); **E21B 10/55** (2006.01)

CPC (source: EP US)  
**E21B 10/006** (2013.01 - EP US); **E21B 10/48** (2013.01 - EP US); **E21B 10/55** (2013.01 - EP US); **E21B 10/62** (2013.01 - EP US)

Designated contracting state (EPC)  
BE DE FR GB IT NL

DOCDB simple family (publication)  
**WO 9827311 A1 19980625**; BE 1010801 A3 19990202; CA 2274152 A1 19980625; CA 2274152 C 20060131; DE 69719364 D1 20030403; DE 69719364 T2 20031204; EP 0944765 A1 19990929; EP 0944765 B1 20030226; NO 328796 B1 20100518; NO 992905 D0 19990614; NO 992905 L 19990812; US 6283233 B1 20010904

DOCDB simple family (application)  
**BE 9700136 W 19971216**; BE 9601042 A 19961216; CA 2274152 A 19971216; DE 69719364 T 19971216; EP 97949846 A 19971216; NO 992905 A 19990614; US 31949199 A 19990719