

12

EUROPEAN PATENT APPLICATION

21 Application number: **89112388.7**

51 Int. Cl.⁵: **E21B 10/56**

22 Date of filing: **06.07.89**

30 Priority: **06.07.88 US 215499**

43 Date of publication of application:
10.01.90 Bulletin 90/02

64 Designated Contracting States:
BE DE FR GB NL

68 Date of deferred publication of the search report:
06.06.90 Bulletin 90/23

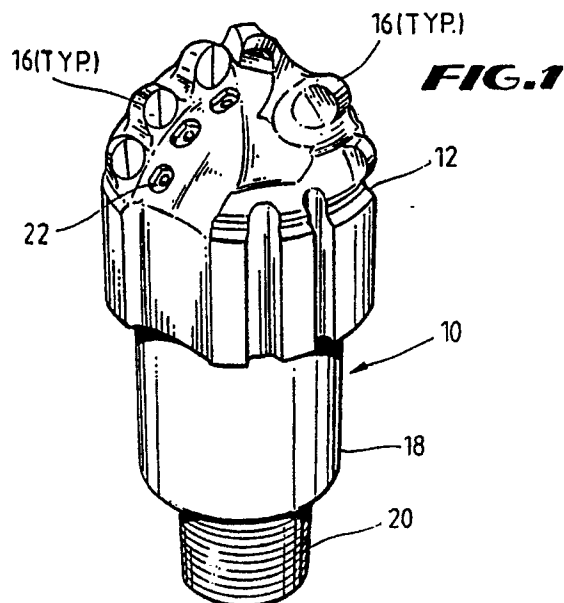
71 Applicant: **Eastman Christensen Company**
1937 South 300 West
Salt Lake City Utah 84115(US)

72 Inventor: **Jürgens, Rainer Dr.**
Osterloher Landstrasse 20
D-3100 Celle(DE)

74 Representative: **Busse & Busse Patentanwälte**
Postfach 1226 Grosshandelsring 6
D-4500 Osnabrück(DE)

54 **Drill bit with composite cutting members.**

57 Drill bits may include cutting members which have cutting faces formed of segments of differing cutting materials. The faces of the cutting members may include two or more segments, with the segments formed from at least two different materials. For example, a first segment could be formed of a polycrystalline diamond compact surface while a second segment could be formed of a thermally stable diamond product material.



EP 0 350 045 A3



DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)		
A	EP-A-0 157 278 (NORTON CHRISTENSEN) * Abstract * ---	1-14	E 21 B 10/56		
A	EP-A-0 246 789 (NL PETROLEUM PRODUCTS) * Abstract * ---	1-14			
D,A	US-A-4 498 549 (JÜRGENS) * Abstract * -----	1-14			
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)		
			E 21 B		
The present search report has been drawn up for all claims					
Place of search THE HAGUE		Date of completion of the search 19-03-1990	Examiner HEDEMANN, G. A.		
<table><tr><td>CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</td><td>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</td></tr></table>				CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document				