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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM,

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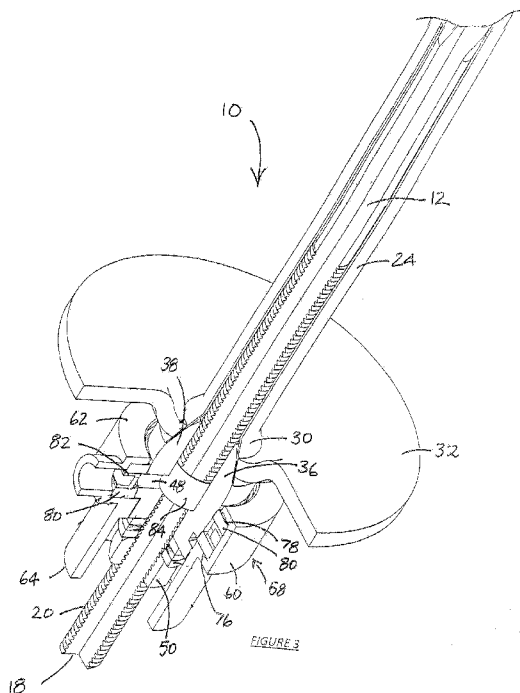
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[Continued on next page]

(54) **Title:** GROUT DELIVERY SYSTEM



(57) **Abstract:** A rock bolt assembly (12) which includes a rock bolt with an elongate body (14) which extends between a distal end and a proximal end, a tubular sleeve (24) which sleeve longitudinally extends between a first end and a second end, on the rock bolt, a load bearing barrel (36) which is centrally bored to engage the rock bolt, which barrel (36) is adapted at a forward end to engage with the end of the sleeve (14) in sealing contact, and which barrel (36) has at least one grout conduit (48) between an exterior surface of the barrel and the bore, when the barrel (36) is engaged with the sleeve (14), and a seal which seals the grout passage to grout outflow but accommodates inflow of grout from a source,



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**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. E21D21/00 E21D20/02  
 ADD.  
 According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**  
 Minimum documentation searched (classification system followed by classification symbols)  
 E21D  
 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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X	WO 2014/091074 A1 (SUOMEN METALLITYÖ OY [FI]) 19 June 2014 (2014-06-19) page 7, lines 6-30 page 9, line 24 - page 10, line 4 -----	1-14, 21-24
X	WO 2004/013463 A1 (DYWIDAG SYSTEMS INT PTY LTD [AU]; RATAJ MIECZYSLAW STANISLAW [AU]; LAN) 12 February 2004 (2004-02-12) page 6, line 10 - page 8, line 30 -----	15-20
X	WO 2010/104460 A1 (SANDVIK INTELLECTUAL PROPERTY [SE]; RATAJ MIECZYSLAW [AU]) 16 September 2010 (2010-09-16) page 16, line 24 - page 18, line 29 -----	1-14, 21-24
X	WO 2012/113976 A1 (SUOMEN METALLITYÖE OY [FI]; AHOLA TOMI [FI]) 30 August 2012 (2012-08-30) page 6, line 28 - page 8, line 7 -----	1-14, 21-24

Further documents are listed in the continuation of Box C.       See patent family annex.

\* Special categories of cited documents :

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Date of the actual completion of the international search  27 June 2017	Date of mailing of the international search report  07/07/2017
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Manolache, Iustin
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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