



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 81 83 12

Classification of the application (IPC):
E21B 4/14, E21B 10/44, E21B 25/04, E21B 25/10

Technical fields searched (IPC):
E21B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 6892834 B1 (BECK III AUGUST H [US]) 17 May 2005 (2005-05-17) * the whole document *	1-6
X	US 6439322 B2 (BECK AUGUST H [US]) 27 August 2002 (2002-08-27) * the whole document *	1
X	EP 0990765 A1 (SOL COMP DU [FR]) 05 April 2000 (2000-04-05) * paragraphs [0018] - [0020], [0023] - [0036] *	1

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 08 March 2023	Examiner Altamura, Alessandra
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-6

A device for boring holes in a ground surface comprising a core barrel

2. claims: 7-10

A device for boring holes in a ground surface comprising an auger

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 1-6

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 08 March 2023	Examiner Altamura, Alessandra
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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 08-03-2023
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 6892834	B1	17-05-2005	US 6892834 B1	17-05-2005
			WO 0079091 A1	28-12-2000
US 6439322	B2	27-08-2002	US 6189630 B1	20-02-2001
			US 6409432 B1	25-06-2002
			US 2001022240 A1	20-09-2001
EP 0990765	A1	05-04-2000	AT E264988 T1	15-05-2004
			EP 0990765 A1	05-04-2000
			HK 1026933 A1	29-12-2000