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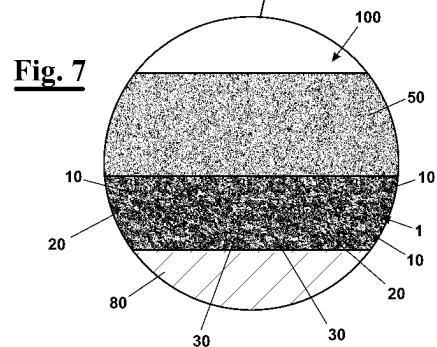
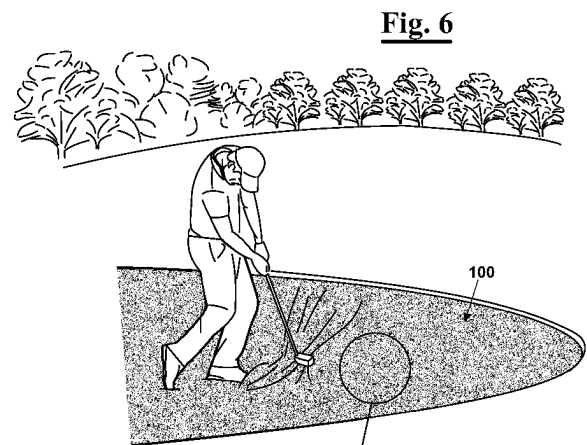
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(54) **METHOD FOR CONSTRUCTION OF A GOLF COURSE BUNKER AND GOLF COURSE BUNKER SO OBTAINED**

(57) A method for the construction of an underlying layer (1) for bunker (100) of golf course (300) comprises the steps of mixing a predetermined amount of particles (10,20) of a loose material comprising particles of an elastomeric material (10) and particles of a mineral material (20), these latter constituting the most by weight of the particles of loose material (10,20), with a predetermined amount of a binder (30) arranged to amalgamate and keep together the particles obtaining a mixture (5). A step follows for distributing the mixture (5) at a predetermined area (200) of a golf course (300) and, therefore, for drying the binder (30) obtaining an underlying layer (1) having a determined height (H). Then, a covering layer (50) is made above the underlying layer (1)





EUROPEAN SEARCH REPORT

Application Number

EP 24 20 7329

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2012/046014 A1 (BLINDER BUNKER LINER LTD [GB]; LONG MURRAY [GB]) 12 April 2012 (2012-04-12)	1,2,4-8, 10-12,15	INV. E01C13/02
Y	* page 1, lines 9-11,22,23 *	8,11	ADD.
A	* page 2, lines 1-15 * * page 3, line 1 - page 4, line 15 * * page 5, lines 14-23 * * page 6, lines 7-16 * * figures 1-3 * -----	3,9	A63B69/36
X	JP S55 49402 A (NICHIREKI CHEM IND CO) 9 April 1980 (1980-04-09)	1,2,4-8, 10-12,15	
Y	* the whole document *	8,11	
A	-----	3,9	
Y	FR 3 049 964 A1 (JOANDEL DENIS [FR]) 13 October 2017 (2017-10-13) * the whole document *	8,11	
A	-----		
A	US 8 062 143 B1 (MEERSMAN DANIEL [US]) 22 November 2011 (2011-11-22) * the whole document *	1-12,15	TECHNICAL FIELDS SEARCHED (IPC)
A	-----		A63B E01C
A	WO 2023/062352 A1 (ECOBUNKER LTD [GB]) 20 April 2023 (2023-04-20) * page 1, lines 3-6 * * page 3, line 15 - page 4, line 10 * * page 10, line 5 - page 12, line 3 * * figures 1-5C * -----	1-12,15	
-The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	
The Hague		19 February 2025	
		Examiner	
		Kremsler, Stefan	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		T : theory or principle underlying the invention	
Y : particularly relevant if combined with another document of the same category		E : earlier patent document, but published on, or after the filing date	
A : technological background		D : document cited in the application	
O : non-written disclosure		L : document cited for other reasons	
P : intermediate document		& : member of the same patent family, corresponding document	



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

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

1 - 12, 15

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

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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: 1-12, 15

Method for the construction of a bunker and bunker, wherein
the mechanical properties are improved

2. claim: 13

Method for the construction of a bunker and bunker, wherein
the drainage capacity of the elastic layer is improved

3. claim: 14

Method for the construction of a bunker and bunker, wherein
the carrying off of rainwater from the bunker is improved

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2012046014 A1	12-04-2012	NONE	
JP S5549402 A	09-04-1980	JP S5549402 A	09-04-1980
		JP S6028961 B2	08-07-1985
FR 3049964 A1	13-10-2017	NONE	
US 8062143 B1	22-11-2011	NONE	
WO 2023062352 A1	20-04-2023	GB 2626871 A	07-08-2024
		WO 2023062352 A1	20-04-2023

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82