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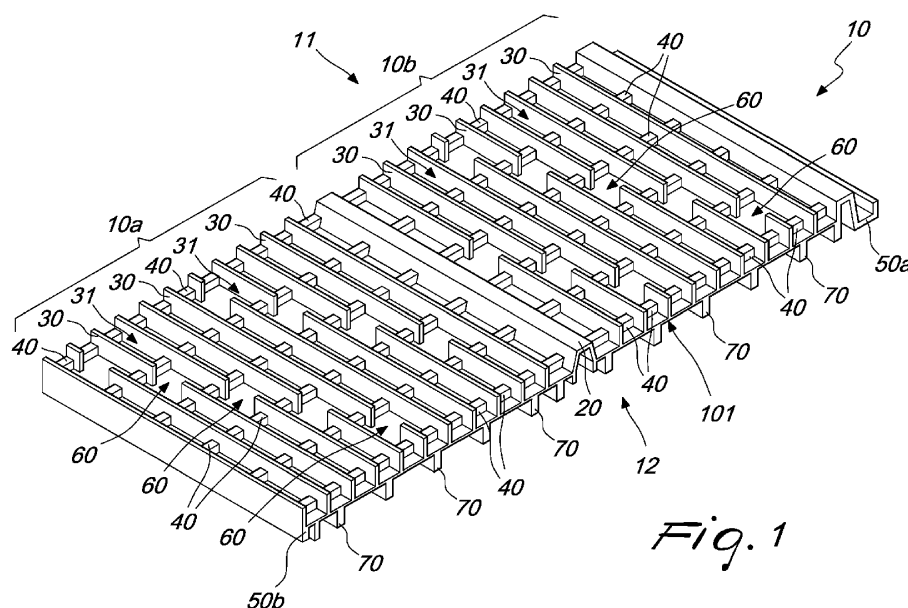
(30) Priority: **01.08.2017 IT 201700088166**

(54) **MAT MADE OF WATERPROOF PLASTIC MATERIAL FOR THE SUB-BASE OF SYNTHETIC TURFS OR PAVINGS AND THE LIKE**

(57) A mat (10) made of waterproof plastic material for the sub-base of synthetic turfs or pavings and the like, adapted to be arranged between a bed surface (201) and a covering layer (202), comprising:

- a membrane (101) which comprises a lower face (12) adapted to be rested on the bed surface (201) and an upper face (11) adapted to be covered by the covering layer (202);
- one or more coupling elements (50a, 50b) for mutual

interconnection with other mats (10') so as to compose a single turf for the complete covering of a predetermined bed surface (201); the lower face (12) and the upper face (11) comprising a plurality of ribs (30, 40, 70) adapted to absorb and return mechanical stresses; the ribs (30, 40, 70) comprise longitudinal lines (30) which form channels (31) for the horizontal draining of the water on the upper face (11).



*Fig. 1*



## EUROPEAN SEARCH REPORT

 Application Number  
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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 2011/036600 A2 (AGRIPOOL S R L A SOCIO UNICO [IT]; MARITANO RICCARDO [IT]) 31 March 2011 (2011-03-31)	1-3,7-10	INV. E01C13/02 E01C5/00 E01C3/00
Y	* paragraphs [0001], [0007], [0021],	6	
A	[0023], [0026], [0027], [0028], [0029], [0033], [0036], [0037], [0042], [0044], [0045], [0050], [0051] * * figures 1,2,3,4 *	4,5	
X	DE 10 2010 045283 A1 (ZINCO GMBH [DE]) 15 March 2012 (2012-03-15)	1-5,8,9	
Y	* paragraphs [0001], [0010], [0012],	6	
A	[0016], [0017], [0019], [0022], [0024], [0071] - [0077], [0092], [0095] * * figures 1,2,8,49 *	7,10	
X	KR 2012 0051861 A (ALKANG REMETECH CO LTD [KR]; URBANICS CO LTD [KR]) 23 May 2012 (2012-05-23)	1-5,8-10	
Y	* paragraphs [0001], [0003], [0007],	6	TECHNICAL FIELDS SEARCHED (IPC)
A	[0011] - [0015], [0022], [0039] - [0045] * * claims 1,6,9; figures 1-5 *	7	E01C E04D
Y	US 7 014 390 B1 (MORRIS R SCOTT [US]) 21 March 2006 (2006-03-21)	6	
A	* column 1, lines 6-11 * * column 1, line 61 - column 2, line 35 * * column 3, lines 4-59 * * column 6, lines 23-43 * * figures 1-3,6 * ----- -/--	1-5,7-10	
<del>The present search report has been drawn up for all claims</del>			
Place of search Munich		Date of completion of the search 13 December 2018	Examiner Kremsler, Stefan
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	

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2013/306804 A1 (HOLTBY QUINN A J [CA] ET AL) 21 November 2013 (2013-11-21) * paragraphs [0002], [0004], [0022] - [0024] * * figures 1,5,6 *	1-10	
A	----- TW M 254 465 U (CHEN RUEI-WEN [TW]) 1 January 2005 (2005-01-01) * the whole document * -----	1-10	
<p><del>The present search report has been drawn up for all claims</del></p>			<p>TECHNICAL FIELDS SEARCHED (IPC)</p>
Place of search		Date of completion of the search	Examiner
Munich		13 December 2018	Kremsler, Stefan
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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Application Number

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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:

1-10

☐ 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**

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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: 1-10

mat made of waterproof plastic material with a plurality of  
ribs on both faces to promote drainage and water retainment

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2. claims: 11, 12

Manufacturing of a mat by extruding and calendering

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**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  
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EPO FORM P0459

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