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(54) **MACHINE, PRODUCT AND METHOD FOR BUILDING UNSURFACED ROADS**

(57) A machine (4), a product, and a method for building unsurfaced roads, by using a self-propelled milling machine (3) to mix the soil of the layout in depth with a

hydraulic binder, typically Portland cement, and an aqueous solution of a liquid aggregator. Finally, a compacting rolling is performed.

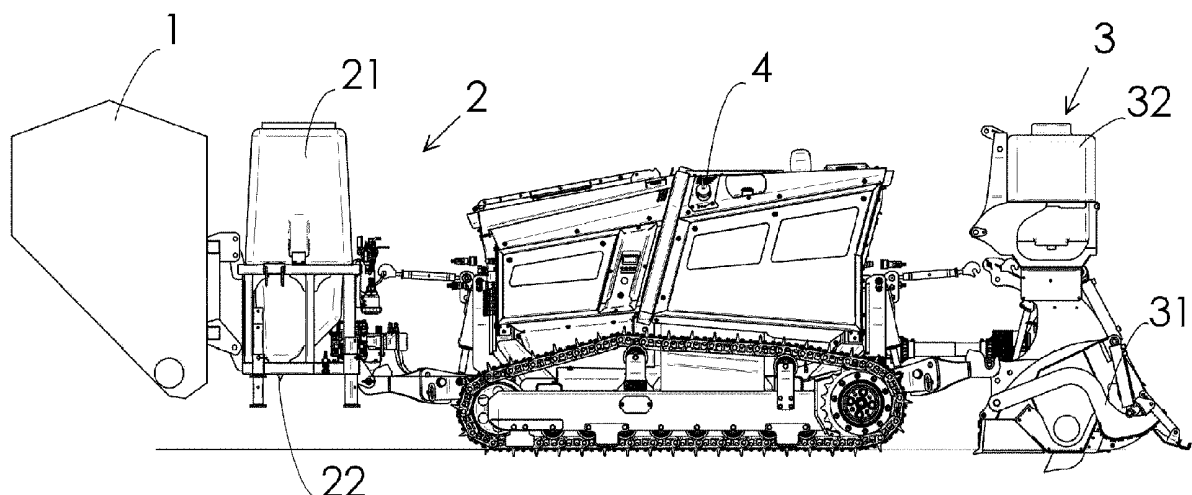


FIG. 1



EUROPEAN SEARCH REPORT

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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)
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Y	US 8 888 404 B2 (HEUSINGER JUERGEN [DE]; NACKE ANDREAS [DE] ET AL.) 18 November 2014 (2014-11-18) * column 8, line 34 - column 10, line 3; figure 3 *	1-3	
Y	US 2012/043401 A1 (HEUSINGER JUERGEN [DE] ET AL) 23 February 2012 (2012-02-23) * paragraph [0037]; figure 3 *	3	
A	US 2017/251657 A1 (LEEB THEODOR [DE]) 7 September 2017 (2017-09-07) * paragraphs [0018], [0054] *	3	
			TECHNICAL FIELDS SEARCHED (IPC)
			A01B E02F E01C B05B B65D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 5 November 2019	Examiner Papadimitriou, S
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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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:

1-3

☐ 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: 1-3

provision of a machine for "building" unsurfaced roads.

2. claims: 4, 5

provision of a liquid aggregator for road surfaces.

3. claims: 6-9

a method of compacting soil of an unsurfaced road.

4. claim: 10

a method for building an underground barrier.

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

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5 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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05-11-2019

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