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(54) **Device for the profiling of canals**

(57) Device for profiling ditches, consisting of a vehicle (3), a profiling cutter (4) coupled to said vehicle (3) that is provided with a bin (12) with an open end (18) and with cutter elements (13) provided opposite the open end (18) of the bin (12), further consisting of an exhaust system (30) with which the content of the bin (12) can be sucked out and collected in a reservoir (31), and which is formed of a vacuum reservoir (31) with a vacuum pump (33) and a drive (34), and whereby the vacuum reservoir (31) is connected to an opening (26) in the bin (12) by

means of an exhaust pipe (35) with an exhaust mouth (37), said vacuum reservoir (31) being a mobile reservoir which is carried along by the vehicle (3), and whereby the bin (12) is provided with a partition (25) at a distance from the open end (18) of the bin (12), and with an opening (26) in the partition (25) to which the exhaust mouth (37) of the exhaust system (30) is connected in order to suck out the content of the bin (12).

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EUROPEAN SEARCH REPORT

Application Number
EP 08 00 5031

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	DE 201 08 725 U1 (SCHENK JUERGEN [DE]) 30 August 2001 (2001-08-30)	1	INV. E02F3/88 E02F5/28
Y	* page 3, paragraph 3 - page 4, paragraph 2 * * page 12, paragraph 2; figures 1,2,3,5 *	2-6	
Y	US 4 934 874 A (KLEER JOHANNES [DE] ET AL) 19 June 1990 (1990-06-19) * column 5, line 59 - line 67; figures 1,2 *	2	
Y	JP 63 297632 A (HARADA KATSUYOSHI) 5 December 1988 (1988-12-05) * figure 2 *	2	
Y	US 5 172 497 A (LEMONDS STEPHEN C [US] ET AL) 22 December 1992 (1992-12-22) * column 4, line 5 - line 14; figure 1 *	3	
Y	US 2 952 083 A (FORKNER JOHN H) 13 September 1960 (1960-09-13) * column 3, line 15 - line 31; figure 2 *	4-6	
A	US 4 631 844 A (DEAL TROY M [US]) 30 December 1986 (1986-12-30) * figures 1,4,5 *	1	TECHNICAL FIELDS SEARCHED (IPC) E02F E01C B02C
A	US 3 122 398 A (TUCKER AUGUSTINE J) 25 February 1964 (1964-02-25) * column 2, line 61 - line 66; figures 3,5 *	4-6	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 31 January 2011	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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EPO FORM 1503 03.82 (P04C01)



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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:

☐ 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

improving the maintenance of a device for profiling ditches.

2. claims: 4-6

improving the suction capacity of a device for profiling ditches.

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

EP 08 00 5031

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.

31-01-2011

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