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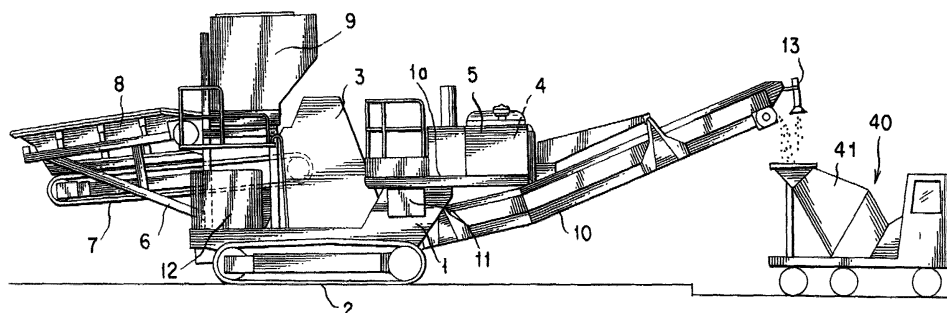
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(54) Fluidized soil material supply machine

(57) A fluidized soil material supply machine comprises a machine body (1) provided with a traveling member (2), a raw soil conveyer (7) mounted to the machine body for conveying the raw soil from a raw soil hopper (8), a solidifying material supply device (9) mounted to the machine body for supplying a solidifying material, a mixer (3) mounted to the machine body for mixing the raw soil and the solidifying material to thereby produce a mixed soil, a mixed soil conveyer (10) for conveying a mixed soil produced in the mixer, and a liquid supply unit for supplying a liquid to be mixed with the raw soil and the solidifying material. A mixing device (40)

operatively connected to the mixed soil conveyer (10) and adapted to mix the mixed soil conveyed through the mixed soil conveyer and the liquid supplied through the liquid supply device. A controller (52) is further provided so as to be operatively connected to detectors for detecting the raw soil supply amount, the solidifying material supply amount and the liquid supply amount, the controller acting to set required full amounts of the respective materials and stop operations of the raw soil conveyer, the solidifying material supply device and the liquid supply device at a time when the respective supply amounts reach the set full amounts.

FIG. 1



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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 (Int.Cl.7)
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) -& JP 11 217821 A (KOMATSU LTD), 10 August 1999 (1999-08-10) * abstract *	1	E02D3/12
A	EP 0 915 205 A (HITACHI CONSTRUCTION MACHINERY) 12 May 1999 (1999-05-12) * paragraphs '0068!', '0069!'; figures 8,25,26 *	4,5	
A	US 4 927 293 A (CAMPBELL RANDY P) 22 May 1990 (1990-05-22) * column 2, line 61 - column 6, line 40; figure 1 *	1	
A	US 4 164 597 A (SMITH CARL K) 14 August 1979 (1979-08-14) * abstract; figure 1 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B28C E02D E02F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 5 November 2002	Examiner De Neef, K
CATEGORY OF CITED DOCUMENTS		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	
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			

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

EP 00 12 2650

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05-11-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 11217821	A	10-08-1999	NONE	
EP 0915205	A	12-05-1999	JP 10317426 A EP 0915205 A1 US 6171030 B1 WO 9853148 A1	02-12-1998 12-05-1999 09-01-2001 26-11-1998
US 4927293	A	22-05-1990	NONE	
US 4164597	A	14-08-1979	NONE	