

12

# EUROPEAN PATENT APPLICATION

21 Application number: 89301360.7

51 Int. Cl.<sup>4</sup>: **E 02 D 17/20**

22 Date of filing: 13.02.89

30 Priority: 12.02.88 JP 28934/88  
12.01.89 JP 5372/89

43 Date of publication of application:  
16.08.89 Bulletin 89/33

84 Designated Contracting States:  
AT BE CH DE ES FR GB IT LI NL SE

88 Date of deferred publication of search report:  
14.03.90 Bulletin 90/11

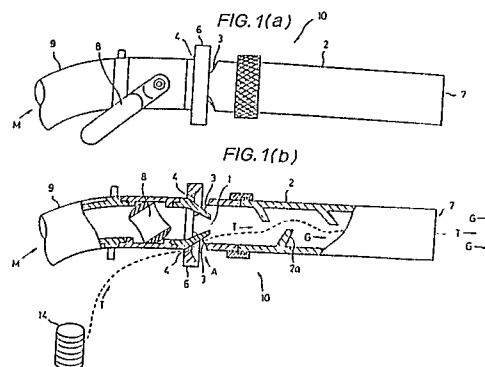
71 Applicant: **KABUSHIKI KAISHA KUMAGAIGUMI**  
**6-8, Chuo 2-chome**  
**Fukui-shi Fukui-ken (JP)**

72 Inventor: **Sasahara, Joruku**  
**401 Nakamachi**  
**Kodaira-shi Tokyo (JP)**

74 Representative: **Davies, Christopher Robert et al**  
**Frank B. Dehn & Co. Imperial House 15-19 Kingsway**  
**London WC2B 6UZ (GB)**

54 **Process for preparing vegetation bedrock and muddy borrow soil base material blasting nozzle therefor.**

57 A soil base material blasting nozzle (10) has a throttle shaped soil base material injection port (1) which opens into a cylinder (2) and an air intake port or ports (3) formed adjacent the injection port in the side face of the cylinder (2). The air intake port(s) (3) are used as an intake port for one or more threadlike, ropelike or tapelike continuous elements (T). In preparing a vegetation bedrock, the soil base material (M) is pumped into the blasting nozzle, and the threadlike, ropelike or tapelike continuous elements are introduced through the air intake port (3), and together they are discharged from the discharging port (7) of the nozzle (10) toward the surface to be treated to prepare a plant germinating and growing bedrock. Preferably a hydrophobic agent is introduced into the nozzle to agglomerate the base material.





EP 89 30 1360

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.4)
X,D	EP-A-0 017 548 (ETAT FRANCAIS) * Page 1, lines 4-13; page 14, line 16 - page 6, line 7; page 18, line 31 - page 19, line 23; claims 1,5-7,11-16; figures 1,4,5 & JP-A-55 167 170 (1980)	1,8	E 02 D 17/20
A,D	---	2-7	
A	PATENT ABSTRACTS OF JAPAN, vol. 4, no. 76 (M-14)[558], 3rd 1980, page 10 M 14; & JP-A-55 36 576 (TENRIYUU GIKEN K.K.) 14-03-1980 * Abstract *	1,3,5,8	
A	EP-A-0 202 137 (CECA) * Column 1, line 31 - column 2, line 25; column 3, line 44 - column 4, line 47; claims 1,2,8 *	2,4,6	
A	FR-A-2 369 014 (SANDELL) ---		
A	GB-A-2 193 118 (RAILWAY TECH. RESEARCH INSTITUTE) -----		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			E 02 D E 01 C B 05 B
Place of search THE HAGUE		Date of completion of the search 11-12-1989	Examiner BELLINGACCI F.
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	