



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
16.04.2014 Bulletin 2014/16

(51) Int Cl.:
E04G 21/20 (2006.01)

(43) Date of publication A2:
16.03.2011 Bulletin 2011/11

(21) Application number: **10172864.0**

(22) Date of filing: **16.08.2010**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR
Designated Extension States:
BA ME RS

(72) Inventor: **Hannula, Tero**
33480, Ylöjärvi (FI)

(74) Representative: **Heinänen, Pekka Antero et al**
Heinänen Oy Patent Agency
Airport Plaza
Äyritie 8 D
01510 Vantaa (FI)

(30) Priority: **19.08.2009 FI 20095855**

(71) Applicant: **Maxit oy ab**
00381 Helsinki (FI)

(54) **Hopper for spreading mortar**

(57) The invention relates to a spreading cradle for spreading solid and/or liquid materials, such as mortar-like materials, which includes at least an adjustment mechanism for the mutual distance of mortar ridges being spread (1, 6), an adjustment mechanism for mortar-ridge height (2), and which spreading cradle includes an opening and closing mechanism of mortar-ridge flow (3, 4), and which spreading cradle includes an opening and closing mechanism of mortar-ridge flow (3, 4), and one or several mortar ridges are spreadable with the spreading cradle at different distances from each other, if required, such that the height and/or width of the mortar ridge and/or its position in the perpendicular direction in relation to the mortar spreading direction are variable by the spreading cradle.

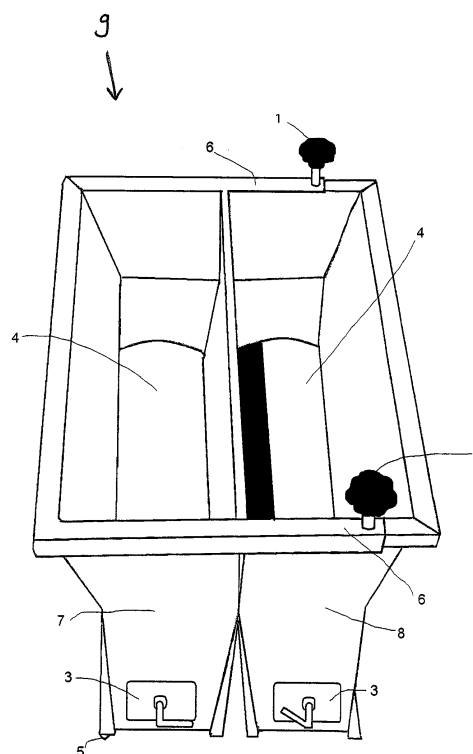


FIG.1

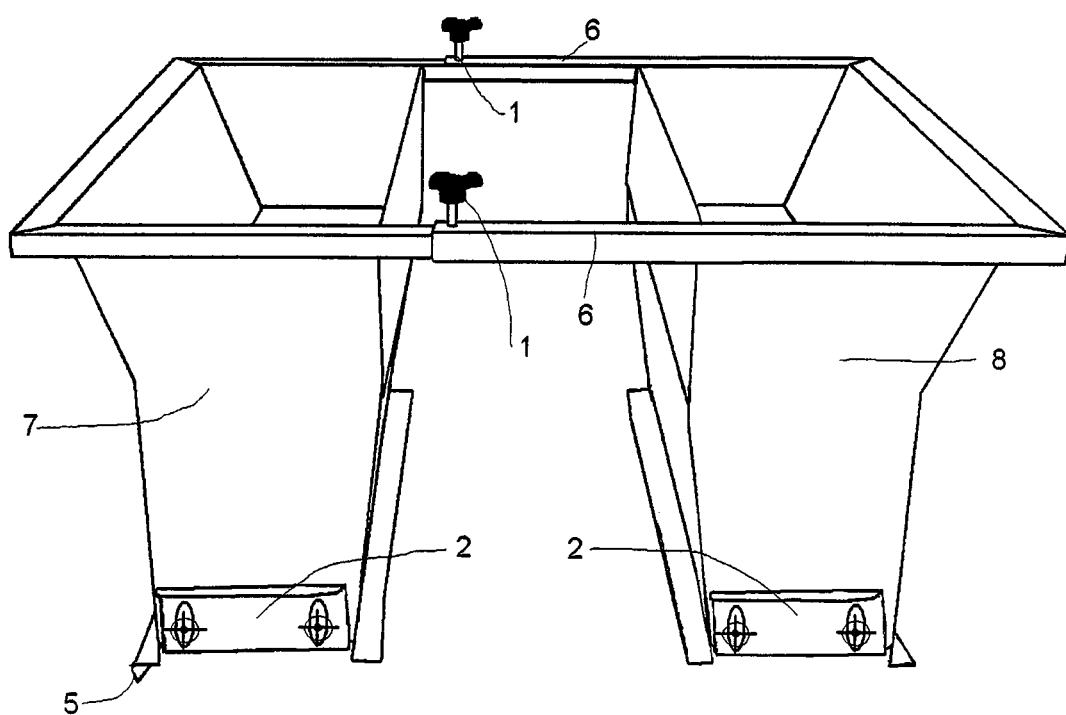


FIG.2

9 ↑



EUROPEAN SEARCH REPORT

Application Number
EP 10 17 2864

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	GB 765 633 A (SYLVIO MAURO) 9 January 1957 (1957-01-09) * the whole document *	1-12	INV. E04G21/20
A	US 3 887 114 A (VILLANOVICH AUGUSTO) 3 June 1975 (1975-06-03) * the whole document *	1-12	
A	US 4 352 445 A (CUSUMANO PHILIP ET AL) 5 October 1982 (1982-10-05) * abstract; figures *	1-12	
			TECHNICAL FIELDS SEARCHED (IPC)
			E04G
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 5 March 2014	Examiner Scharl, Willibald
<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 & : member of the same patent family, corresponding document</p>			

1
EPO FORM 1503 03.82 (P04C01)

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

EP 10 17 2864

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.

05-03-2014

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 765633	A	09-01-1957	NONE	

US 3887114	A	03-06-1975	CA 975140 A1	30-09-1975
			US 3887114 A	03-06-1975

US 4352445	A	05-10-1982	NONE	
