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(7) Applicant: BORD NA MONA Lower Baggot Street Dublin 2 (IE) (2) Inventor: Hughes, Joseph 33, Carrickbrennan Monkstown Co. Dublin (IE)

> Gates, John 27, Mapas Avenue Dalkey Co. Dublin (IE)

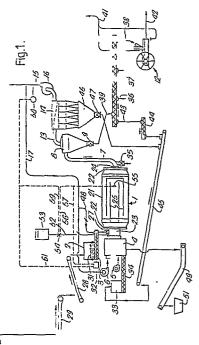
Egar, Kieran 20 Hollypark Avenue Blackrock§Co.Dublin (IE)

O'Gogain, Colm 16 Moorefield Drive Newbridge§Co. Kildare (IE)

(74) Representative: Foster, David Martyn et al MATHISEN MACARA & CO. The Coach House 6-8 Swakeleys Road Ickenham Uxbridge UB10 8BZ (GB)

(54) Peat drying apparatus and method.

(57) In drying apparatus for removing moisture from peat, hot gases generated by a furnace 4 are sucked through a rotary drum drier 1 by a downstream blower 16. Peat is fed into the drum drier 1 by a conveyor 3 and entrained with the gas flow for direct contact heat exchange and intensive drying action during its passage through the drier. Downstream of the drier 1, the peat and hot gases are separated by cyclone units 8 and 14. A substantial proportion of the hot gases separated from the gas and peat mixture are returned by duct 17 to the upstream end of the drying system for recycling through the drying stage. The returned gases are input to the furnace 4 by blower 6, where they are mixed with fresh combustion gas and reheated. Oxygen content in the hot gases leaving the system is monitored by sensor 58 and peat input to the drier 1 is only allowed when the oxygen content is less than 12%. Temperature within the drier is also monitored by sensor 55 and peat input only takes place when enabled by oxygen content and also when appropriate temperature conditions prevail in the drier. A water input 52 to the drying system is also enabled and disabled by the oxygen sensor 58, and water injection takes place, when enabled, if drier temperature rises to an excessive



EUROPEAN SEARCH REPORT

EP 88 30 0465

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	DOCUMENTS CONSID	ERED TO BE RELEVAN	T	
Category	Citation of document with ind of relevant pass		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Υ	AUFBEREITUNGS-TECHNI pages 603-611; OBERI "Betrachtungen zur Kohleschlammtrocknun Berücksichtigung sic Aspekte" * Page 609, right-ha - page 611, right-ha	NG. H. MOTEK: g unter besonderer herheitstechnischer nd column, line 55	1-10	C 10 F 5/00 F 26 B 21/06
Υ	FR-A-2 574 918 (ETA & FILS) * Claims 1-3; figure		1-4,7- 10	
Υ	US-A-4 008 042 (AUV * Claims 1-15; figur		1-4,6- 10	
Y	FR-A-2 367 261 (GOU * Claims 1-8; figure *	IRMELIN et al.) e 1; page 4, line 26	5	
A,D P	GB-A-2 188 134 (ATF		1-4,8- 10	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	DE-A-1 604 824 (BÜT * Claims; figure * 	TNER-SCHILDE-HAAS)	1-10	C 10 B F 26 B
X: p Y: p d A: t	The present search report has be place of search HE HAGUE CATEGORY OF CITED DOCUME particularly relevant if taken alone particularly relevant if combined with an occument of the same category echnological background non-written disclosure	Date of completion of the search 28-10-1988 NTS	ciple underlying t document, but pu g date ed in the applicati ed for other reason	ublished on, or on