

Title (en)  
PEAT DRYING APPARATUS AND METHOD

Publication  
**EP 0276145 A3 19890125 (EN)**

Application  
**EP 88300465 A 19880120**

Priority  
IE 15487 A 19870121

Abstract (en)  
[origin: EP0276145A2] 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 level.

IPC 1-7  
**C10F 5/00; F26B 21/06**

IPC 8 full level  
**C10F 5/00** (2006.01)

CPC (source: EP)  
**C10F 5/00** (2013.01)

Citation (search report)

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