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EUROPEAN PATENT APPLICATION

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⑥④ Designated Contracting States: **DE FR GB**

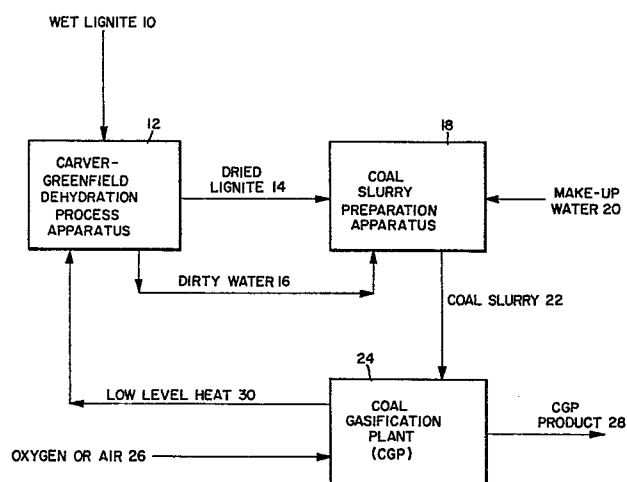
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⑥④ **Gasification process.**

⑥⑦ The invention relates to a process for the gasification of a low quality solid carbonaceous fuel containing bound water such as sub-bituminous coal, lignite, and peat. The process incorporates a Carver-Greenfield dehydration system (12, 34) which removes most of the bound water from the fuel. In one embodiment of the invention (Figure 1), all the fuel is dried in the dehydration system (12) and the dried fuel (14) fed to a slurry preparation apparatus (18) where it is mixed with water to form a fuel slurry (22). The slurry (22) is then fed to a coal gasification plant (24) where it is subjected to partial oxidation using oxygen or air to produce a product gas (28). Dirty water (16) from the dehydration system (12) may be used to form the fuel slurry (22) in the slurry preparation apparatus (18), and low level heat (30) from the gasification plant may be recycled for use in the dehydration system (12).

In an alternative embodiment (Figure 2), only a first portion of wet fuel from a store (32) is fed to a Carver-Greenfield dehydration system (34) from which dried fuel is fed direct to the gasification plant (42). A second portion of wet fuel is fed direct from the storage (32) to the plant (42) where the wet and dried fuel blend to provide a feedstock for the plant (42) with a predeterminable water content.





European Patent
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EUROPEAN SEARCH REPORT

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EP 83 30 3287

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. ³)
D,Y	US-A-4 166 802 (SLATER) * Column 1, line 67 - column 2, line 27; column 4, line 63 - column 5, line 15; columns 5-6, claims *	1,4,5,12,13	C 10 J 3/46 C 10 F 5/00
A	---	3,14	
Y	US-A-3 992 784 (VERSCHUUR) * Column 2, lines 46-49; columns 7-8, claims 1-4 *	1,4,5,12,13	
A	WO-A-8 102 303 (STORA KOPPABERG) * Page 5, lines 10-31 *	6	
A	DE-A-2 521 132 (RHEINISCHE BRUANKOHLLENWERKE)		C 10 J C 10 F
D,A	US-A-3 323 575 (GREENFIELD)		
D,A	US-A-3 544 291 (SCHLINGER) -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28-05-1984	Examiner WENDLING J.P.
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			