

12 **EUROPEAN PATENT APPLICATION**

21 Application number: **83112084.5**

51 Int. Cl.⁴: **F 23 D 1/00**

22 Date of filing: **01.12.83**

30 Priority: **20.12.82 US 451622**

71 Applicant: **OCCIDENTAL RESEARCH CORPORATION,**
2100 S.E. Main Street, Irvine, California 92714 (US)

43 Date of publication of application: **27.06.84**
Bulletin 84/26

72 Inventor: **Arand, John K., 5731 Mistridge Drive, Palos**
Verdes California 90274 (US)
Inventor: **Mansour, Mansour N., 2029 Paso Verde Drive,**
Hacienda Heights California 92745 (US)
Inventor: **Muzio, Lawrence J., 29541 Vista Plaza Drive,**
Laguna Niguel California 92677 (US)

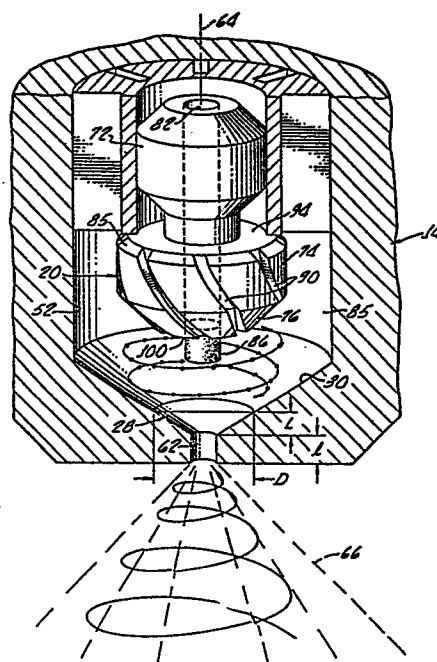
64 Designated Contracting States: **AT BE CH DE FR GB IT**
LI LU NL SE

88 Date of deferred publication of search
report: **22.05.85 Bulletin 85/21**

74 Representative: **Jack, Bruce James et al, FORRESTER &**
BOEHMERT Widenmayerstrasse 4/1,
D-8000 Munchen 22 (DE)

54 **Method and apparatus for atomizing slurry-type fuel.**

57 Into a mixing chamber (28) are introduced a slurry-type fuel under pressure along the axis (64) of the mixing chamber (28) and an atomizing fluid under pressure in a tangential direction along the periphery of the mixing chamber (28), the atomized fuel discharging from the mixing chamber (28) through an orifice (62). The degree of atomization of the slurry-type fuel may be adjusted by varying the pressure differential between the slurry-type fuel and the atomizing fluid entering the mixing chamber.





European Patent
Office

EUROPEAN SEARCH REPORT

0111793
Application number

EP 83 11 2084

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)
Y	GB-A- 539 877 (THE ANGLO-SAXON PETROLEUM COMPANY) * Page 2, lines 11-96; figures 1-4 *	1,2,3, 4,5,7 8,9, 10	F 23 D 1/00
A	---	12	
Y	US-A-4 347 982 (WRIGHT) * Column 2, lines 7-68; column 3, lines 1-17; figures 1-3 *	1	
Y	US-A-3 244 375 (DAVIS) * Column 4, lines 32-75; column 5, lines 1-40; column 7, lines 16-28; figure 8 *	1,3,4, 5,7,8, 9,10, 11,12	
Y	GB-A-1 096 551 (FOSTER WHEELER) * Page 1, lines 12-14, 65-80; page 2, lines 1-7, 57-84; page 3, lines 1-20, 30-57; figures 2,3 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
A	GB-A- 322 257 (FARROW) * Page 2, lines 60-88; page 3, lines 71-130; page 4, lines 1-24; figures 7,8 *	1,2,3, 8,9, 10,12	F 23 D
A	US-A-3 578 249 (GULF) ---		
A	GB-A-2 078 547 (TAMAI) --- -/-		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 14-01-1985	Examiner PHOA
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			





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)
A	US-A-1 564 064 (HANNAH) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
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			