

Title (en)  
METHOD AND INSTALLATION FOR GENERATING STEAM, ESPECIALLY IN HEAT POWER PLANTS

Publication  
**EP 0363812 A3 19910227 (DE)**

Application  
**EP 89118445 A 19891004**

Priority  
DE 3834801 A 19881010

Abstract (en)  
[origin: EP0363812A2] The fluidised bed technique is used in generating steam in heat power plants in order to avoid the aftertreatment of flue gases for the purpose of reducing toxic constituents. In this process, the coal is burned at relatively low temperatures of around 850 DEG C, none or scarcely any thermal nitrogen oxide being formed in the fluidised bed of coal and lime, and SO<sub>2</sub> which forms being converted to calcium sulphate. However, due to the low temperatures there is a higher emission of CO, especially in part-load operation. In order to reduce the latter, heat is additionally supplied to the free space above the fluidised bed, with the result that it is possible to achieve the purpose of influencing the temperature of the free space independently of that of the fluidised bed, and substantially to increase the conversion of CO to CO<sub>2</sub>. A reduction in the NO<sub>x</sub> values can further be achieved by restricting the quantity of air to be supplied to the fluidised bed below the stoichiometrically necessary additional supply of air to the free space while simultaneously supplying heat. <IMAGE>

IPC 1-7  
**F23C 11/02**

IPC 8 full level  
**F23C 10/00** (2006.01)

CPC (source: EP)  
**F23C 10/002** (2013.01)

Citation (search report)

- [Y] US 4308810 A 19820105 - TAYLOR THOMAS E
- [Y] GB 2192141 A 19880106 - POLITECHNIKA SLASKA IM WINCENT
- [A] US 4543894 A 19851001 - GRISWOLD CHARLES F [US], et al
- [A] GB 2023268 A 19791228 - WORSLEY & CO LTD G P
- [A] PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 22 (M-354)[1745], 30. Januar 1985; & JP-A-59 167 608 (BABCOCK) 21-09-1984
- [A] PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 191 (M-322)[1628], 4. September 1984; & JP-A-59 81 408 (BABCOCK) 11-05-1984
- [A] PATENT ABSTRACTS OF JAPAN, Band 10, Nr. 381 (M-547)[2438], 19. Dezember 1986; & JP-A-61 173 012 (HITACHI) 04-08-1986

Cited by  
DE4224959A1; US5634329A; US6260492B1; WO9322600A1; WO9739280A1; WO9105205A1; WO9116575A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0363812 A2 19900418; EP 0363812 A3 19910227**

DOCDB simple family (application)  
**EP 89118445 A 19891004**