

Title (en)  
Low excess air tangential firing system.

Title (de)  
Tangentialfeuerung mit niedrigem Luftüberschuss.

Title (fr)  
Combustion tangentielle à bas excédent d'air.

Publication  
**EP 0238907 A2 19870930 (EN)**

Application  
**EP 87103150 A 19870305**

Priority  
US 84341986 A 19860324

Abstract (en)  
A furnace (10) in which pulverized coal is burned in suspension. The coal is introduced along with primary air, tangent to an imaginary circle (42). The auxiliary air is introduced tangent to an imaginary circle (44) directly above the primary air, in a direction of rotation opposite that of the primary air. The auxiliary air is directed tangent to a circle of greater diameter than that of the primary air. There are a plurality of alternating levels within the furnace where primary air (38), and then auxiliary air (40), is introduced.

IPC 1-7  
**F23C 5/32**

IPC 8 full level  
**F23D 1/00** (2006.01); **F23C 5/32** (2006.01); **F23C 99/00** (2006.01)

CPC (source: EP KR)  
**F23C 5/32** (2013.01 - EP KR); **F23D 1/00** (2013.01 - KR)

Cited by  
CN100451447C; EP0915290A1; EP0405294A3; CN100427824C; US5429060A

Designated contracting state (EPC)  
BE DE ES FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0238907 A2 19870930; EP 0238907 A3 19881109; EP 0238907 B1 19910724;** AU 583717 B2 19890504; AU 7050387 A 19871001; CA 1273248 A 19900828; CN 1005589 B 19891025; CN 87102205 A 19871118; DE 3771537 D1 19910829; DK 147587 A 19870925; DK 147587 D0 19870323; ES 2025077 B3 19920316; IN 168173 B 19910216; JP H0429926 B2 19920520; JP S62233610 A 19871014; KR 870009175 A 19871024; KR 900006241 B1 19900827; ZA 872065 B 19871125

DOCDB simple family (application)  
**EP 87103150 A 19870305;** AU 7050387 A 19870323; CA 531079 A 19870304; CN 87102205 A 19870318; DE 3771537 T 19870305; DK 147587 A 19870323; ES 87103150 T 19870305; IN 168CA1987 A 19870304; JP 6812987 A 19870324; KR 870002677 A 19870324; ZA 872065 A 19870320