

Title (en)  
Rotary kiln.

Title (de)  
Drehrohrofen.

Title (fr)  
Four rotatif.

Publication  
**EP 0579987 B1 19950913 (DE)**

Application  
**EP 93110401 A 19930630**

Priority  
DE 4224571 A 19920724

Abstract (en)  
[origin: US5286200A] A rotary kiln with primary air feed at the end wall of the rotary kiln is distinguished by the feature that at least two primary air nozzles are oriented relative to each other and to the fuel bed so that two oppositely directed vortices are generated within the rotary kiln, the axes of rotation of said vortices extending substantially parallel to the axis of the rotary kiln and said vortices rotating about said axes of rotation so as to promote the thermal convection-induced motion of the combustion gases.  
[origin: US5286200A] A rotary kiln with primary-air introduction on the end wall of the rotary tube is characterised in that at least two primary-air nozzles are directed in relation to one another and to the fuel bed in such a manner that two swirls running in opposite directions are created in the rotary tube, the axes of rotation of which run essentially parallel to the axis of the rotary tube and which rotate about these axes of rotation in such a manner that they support the thermal-induced movement of the combustion gases.

IPC 1-7  
**F23G 5/20**; **F23G 5/16**; **F27B 7/36**

IPC 8 full level  
**F23G 5/16** (2006.01); **F23G 5/20** (2006.01); **F27B 7/36** (2006.01)

CPC (source: EP US)  
**F23G 5/16** (2013.01 - EP US); **F23G 5/20** (2013.01 - EP US); **F27B 7/362** (2013.01 - EP US)

Cited by  
EP0741267A1; DE102005008893A1; DE102005008893B4; DE19650785A1; DE19650785C2; EP0846918A3; WO2005003665A3; WO9635081A1

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

DOCDB simple family (publication)  
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**EP 93110401 A 19930630**; DE 4224571 A 19920724; DE 59300585 T 19930630; DK 93110401 T 19930630; ES 93110401 T 19930630; US 97840192 A 19921118