

Title (en)
AIR MIXING DEVICE

Publication
EP 0421182 A3 19911127 (DE)

Application
EP 90117912 A 19900918

Priority
DE 3932837 A 19890930

Abstract (en)
[origin: EP0421182A2] In dryers with gas heating, it is a particular problem uniformly to mix the combustion gases produced with the burner with the treatment air which is circulated in the circuit. In order to achieve this, a special construction of the air mixing device is envisaged, which consists of three parts arranged one behind another, the treatment air being in each part of different construction in each case deflected to the centre of the treatment duct and in this connection mixed with the air flows which originate from the sides. It is advantageous, firstly by means of a funnel-shaped air mixing part and then by means of such with sheets arranged parallel to one another, which are first arranged vertically and then transversely thereto, to create swirling in each case. <IMAGE>

IPC 1-7
F26B 21/00; **B01F 3/02**

IPC 8 full level
F26B 13/02 (2006.01); **B01F 23/10** (2022.01); **F24F 13/08** (2006.01); **F26B 21/00** (2006.01)

CPC (source: EP US)
B01F 25/4315 (2022.01 - EP US); **B01F 25/43161** (2022.01 - EP US); **F26B 21/00** (2013.01 - EP US); **B01F 25/43163** (2022.01 - EP US)

Citation (search report)

- [A] US 4495858 A 19850129 - ERICKSON DONALD P [US]
- [A] FR 609643 A 19260818
- [A] DE 1807922 A1 19690612 - TEIJIN LTD
- [A] FR 2269998 A1 19751205 - SULZER AG [CH]
- [A] FR 1372655 A 19640918 - SYNTHÈSE ET D OXYDATION SYNOXY
- [A] FR 500283 A 19200306 - GEORGES LACROIX [FR]
- [A] PATENT ABSTRACTS OF JAPAN, Band 6, Nr. 24 (C-91)[902], 12. Februar 1982; & JP-A-56 147 619 (MITSUBISHI) 16-11-1981

Cited by
EP3168559A1; IT201900022905A1; EP2378229A1; ITFI20100067A1; US10539369B2

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

DOCDB simple family (publication)
EP 0421182 A2 19910410; **EP 0421182 A3 19911127**; **EP 0421182 B1 19940803**; AT E109372 T1 19940815; DE 3932837 A1 19910418; DE 59006684 D1 19940908; DK 0421182 T3 19941121; JP 2829324 B2 19981125; JP H03125895 A 19910529; US 5150535 A 19920929

DOCDB simple family (application)
EP 90117912 A 19900918; AT 90117912 T 19900918; DE 3932837 A 19890930; DE 59006684 T 19900918; DK 90117912 T 19900918; JP 25761590 A 19900928; US 59136690 A 19901001