

Title (en)

Dryer with exhaust gas purification by thermal afterburning

Title (de)

Trockner mit Abgasreinigung mittels thermischer Nachverbrennung

Title (fr)

Sécheur avec purification de gaz d'échappement par post-combustion thermique

Publication

EP 0851194 A3 19980826 (DE)

Application

EP 97121908 A 19971212

Priority

DE 19654043 A 19961223

Abstract (en)

[origin: DE19654043A1] The dryer (1) comprises at least one additional heat exchanger as a heater (8), arranged in the heating exhaust stream before a gas-gas heat exchanger (7). On the heating side, exhaust gases are cooled by passing through the additional heat exchanger. On the cooling side, either steam is generated or a heat transfer fluid, of high volume specific heat capacity, is heated. The dryer consists of a vapour heated drying path (2) with an additional heated drying path (4). At least one more heat exchanger, as a heat register (5), provides the additional heating of the dryer and is arranged after the vapour-heated drying path. The heating side releases heat by condensing steam or cooling a heat transfer medium of high specific heat capacity. Further heat, in addition to that from the vapour, is supplied. The heater and the heat register are connected together to create a circuit (9) for the heating medium.

IPC 1-7

F26B 23/10; **F26B 17/00**

IPC 8 full level

F26B 21/04 (2006.01); **F26B 23/02** (2006.01)

CPC (source: EP US)

F26B 21/04 (2013.01 - EP US); **F26B 23/022** (2013.01 - EP US); **F26B 2200/24** (2013.01 - EP US)

Citation (search report)

- [DY] DE 4017806 A1 19911205 - KOERTING AG [DE], et al
- [YA] WO 8911072 A1 19891116 - KAINDL HOLZINDUSTRIE [AT]
- [A] DE 3534260 A1 19870402 - PLONKA DOHREN MARIANNE [DE]
- [A] DE 382265 C 19231001 - SPRINGER W, et al
- [A] DE 4427709 A1 19960111 - KNABE MARTIN [DE]
- [A] US 2798693 A 19570709 - GUSTAV BOJNER
- [A] US 3274698 A 19660927 - ASHBY BILLY B
- [A] EP 0047636 A2 19820317 - CHEMETRON PROCESS EQUIP [US]
- [A] EP 0714006 A1 19960529 - KUNZ AG W [CH]

Cited by

CN104501547A; EP2295909A1; DE10221367B4; CN104501570A; US11142717B2; EP1363097A1

Designated contracting state (EPC)

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DE 19654043 A1 19970703; **DE 19654043 C2 19980528**; CA 2225569 A1 19980623; EP 0851194 A2 19980701; EP 0851194 A3 19980826; US 5950322 A 19990914

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