

Title (en)
FLAME TUBE BOILER

Title (de)
FLAMMROHRKESSEL

Title (fr)
CHAUDIERE A TUBE-FOYER

Publication
EP 0629273 B1 19960911 (DE)

Application
EP 92906303 A 19920305

Priority
• DE 9200190 W 19920305
• DE 4206969 A 19920305

Abstract (en)
[origin: WO9318339A1] A flame tube boiler which automatically keeps itself during operation and is suitable for operation with powdery, ash-containing fuels, has smoke tubes (9) with trumpet-like flaring inflow openings (15) in the wall (16) that separates the boiler drum from a deflection chamber (4). The flame tube (2) is sized so that, taking into an account the output of the boiler, the flue gasses at the flame tube outlet are cooled down by a safety margin that means below the ash softening point of the fuel used. The number and inner diameter (R) of the smoke tubes (9) are determined so that a dynamic pressure not lower than 40 Pa is set therein. A blow pipe (13) that blows approximately in the tangential direction to the partition in order to keep the inlet openings free from ash deposits is mounted on the deflection chamber (4).

IPC 1-7
F22B 7/12; F22B 37/06

IPC 8 full level
F22B 7/12 (2006.01); **F22B 37/06** (2006.01); **F23C 3/00** (2006.01); **F23J 1/00** (2006.01); **F23J 3/00** (2006.01); **F24H 1/28** (2006.01)

CPC (source: EP US)
F22B 7/12 (2013.01 - EP US); **F22B 37/06** (2013.01 - EP US); **F23C 3/00** (2013.01 - EP US); **F23J 1/00** (2013.01 - EP US); **F23J 3/00** (2013.01 - EP US); **F24H 1/285** (2013.01 - EP US)

Cited by
CN102767814A; FR2837262A1

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

DOCDB simple family (publication)
WO 9318339 A1 19930916; AT E142764 T1 19960915; CZ 205894 A3 19941215; CZ 283961 B6 19980715; DE 4206969 A1 19930916; DE 59207146 D1 19961017; DE 9218922 U1 19960229; EP 0629273 A1 19941221; EP 0629273 B1 19960911; ES 2093252 T3 19961216; HU 216756 B 19990830; HU 9402362 D0 19941028; HU T67842 A 19950529; PL 169337 B1 19960731; PL 305049 A1 19950109; RU 2091665 C1 19970927; RU 94041758 A 19960827; US 5558046 A 19960924

DOCDB simple family (application)
DE 9200190 W 19920305; AT 92906303 T 19920305; CZ 205894 A 19920305; DE 4206969 A 19920305; DE 59207146 T 19920305; DE 9218922 U 19920305; EP 92906303 A 19920305; ES 92906303 T 19920305; HU 9402362 A 19920305; PL 30504992 A 19920305; RU 94041758 A 19920305; US 29569394 A 19940830