

Title (en)

METHOD OF REGULATING THE SUPERHEATING TEMPERATURE OF STEAM IN A CIRCULATING FLUIDIZED BED TYPE GAS COOLER

Title (de)

VERFAHREN ZUR REGELUNG DER DAMPFÜBERHITZUNGSTEMPERATUR IN EINEM ZIRKULIERENDEN WIRBELSCHICHT-GASKÜHLER

Title (fr)

PROCEDE POUR REGULER LA TEMPERATURE DE SURCHAUFFE DE LA VAPEUR DANS UN REFROIDISSEUR A GAZ DU TYPE A LIT FLUIDISE EN CIRCULATION

Publication

EP 0795112 B1 19990113 (EN)

Application

EP 95937910 A 19951114

Priority

- FI 9500627 W 19951114
- FI 945737 A 19941205

Abstract (en)

[origin: WO9618076A1] The present invention refers to a method of regulating the steam superheating temperature in a circulating fluidized bed type gas cooler. Hot gas is introduced into a mixing chamber, where it is mixed with solids having a temperature lower than that of the gas, whereby the temperature of the mixing chamber settles to a mixing temperature. The mixture of the gas and solids is taken from the mixing chamber via a riser to a solids separator, heat being thereby cooling the mixture of gas and solids and transferring heat to heat transfer surfaces. Solids are separated from the gas in the separator and recirculated into the mixing chamber. In connection with the cooling of the gas, superheated steam is generated in evaporators and superheaters arranged in the cooler. The mixing temperature in the mixing chamber, according to the invention, is utilized for temperature regulation of the superheated steam generated in connection with the gas cooling. The mixing temperature may be regulated by controlling the amount and temperature of solid material being introduced into the mixing chamber.

IPC 1-7

F28D 13/00; F22G 5/00; F23C 11/02

IPC 8 full level

F22G 5/12 (2006.01); **F22B 31/00** (2006.01); **F22G 5/00** (2006.01); **F28D 13/00** (2006.01)

CPC (source: EP)

F22B 31/0084 (2013.01); **F22G 5/00** (2013.01); **F28D 13/00** (2013.01)

Cited by

US6612250B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL PT SE

DOCDB simple family (publication)

WO 9618076 A1 19960613; AT E175772 T1 19990115; AU 3873695 A 19960626; AU 681547 B2 19970828; CA 2205982 A1 19960613; DE 69507337 D1 19990225; EP 0795112 A1 19970917; EP 0795112 B1 19990113; FI 945737 A0 19941205; FI 945737 A 19960606; JP H10500477 A 19980113; TW 280858 B 19960711

DOCDB simple family (application)

FI 9500627 W 19951114; AT 95937910 T 19951114; AU 3873695 A 19951114; CA 2205982 A 19951114; DE 69507337 T 19951114; EP 95937910 A 19951114; FI 945737 A 19941205; JP 51714996 A 19951114; TW 84112309 A 19951120