

Title (en)
GLASS TUBE HEAT EXCHANGER

Publication
EP 0135188 B2 19910306 (DE)

Application
EP 84110858 A 19840912

Priority
DE 3333057 A 19830914

Abstract (en)
[origin: EP0135188A2] 1. A glass tube heat exchanger for heating the scrubbed clean gas flow of a waste-gas cleaning installation with hot crude gas in which the hot crude gas is passed through the glass tubes and the scrubbed clean gas is passed through the heat exchanger housing whose outside walls which come into contact with the clean gas are of a double-wall structure and are heated characterised in that heated fresh air circulates in the cavities (8) of the outside walls (7), the fresh air being kept moving by a fan (9).

IPC 1-7
F28F 21/00; F28F 19/00; F28D 21/00

IPC 8 full level
F23J 15/08 (2006.01); **F28D 21/00** (2006.01); **F28F 19/00** (2006.01); **F28F 21/00** (2006.01)

CPC (source: EP)
F23J 15/08 (2013.01); **F28D 21/0008** (2013.01); **F28F 19/00** (2013.01); **F28F 21/006** (2013.01)

Citation (opposition)
Opponent :
DE 3142485 A1 19830511 - LANGBEIN & ENGELBRECHT [DE]

Cited by
DE3909929C1; EP2085732A1

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

DOCDB simple family (publication)
EP 0135188 A2 19850327; EP 0135188 A3 19851127; EP 0135188 B1 19870429; EP 0135188 B2 19910306; AT E26885 T1 19870515;
DE 3333057 C1 19850418

DOCDB simple family (application)
EP 84110858 A 19840912; AT 84110858 T 19840912; DE 3333057 A 19830914