

Title (en)
GAS SUSPENSION PREHEATER

Publication
EP 0342340 A3 19900516 (DE)

Application
EP 89105487 A 19890328

Priority
DE 3817355 A 19880520

Abstract (en)
[origin: US4901448A] The invention relates to a suspension heat exchanger for heat exchange between gas and fines. It contains a plurality of cyclone separators which lie one above another with their axes aligned vertically and in which the cover walls and the inlet pipe connections of the substantially straight upper parts of the cyclones are inclined at an acute angle with respect to the horizontal. This contributes to a particularly simple and space-saving overall construction and to a favourable material separation with relatively low pressure loss.

IPC 1-7
F27B 7/20; **B04C 5/02**; **F27D 13/00**

IPC 8 full level
B04C 5/02 (2006.01); **B04C 5/081** (2006.01); **B04C 5/13** (2006.01); **B04C 5/26** (2006.01); **F27B 7/20** (2006.01); **F27D 13/00** (2006.01)

CPC (source: EP US)
B04C 5/02 (2013.01 - EP US); **B04C 5/081** (2013.01 - EP US); **B04C 5/13** (2013.01 - EP US); **B04C 5/26** (2013.01 - EP US);
F27B 7/2016 (2013.01 - EP US)

Citation (search report)
• DE 1154768 B 19630919 - WESTFALIA DINNENDAHL GROEPPPEL
• US 3865242 A 19750211 - MUSTO RICHARD LEOPOLD
• DE 1090940 B 19601013 - REINHOLD KAMPS DIPL ING DR
• [A] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 78 (C-274)[1801], 6th April 1985; & JP-A-59 213 460 (UBE KOSAN K.K.)

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DE4222593A1; EA021413B1; US8657934B2; WO2011032620A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0342340 A2 19891123; **EP 0342340 A3 19900516**; **EP 0342340 B1 19930616**; CA 1315096 C 19930330; DE 3817355 A1 19891130;
DE 58904693 D1 19930722; ES 2040919 T3 19931101; US 4901448 A 19900220

DOCDB simple family (application)
EP 89105487 A 19890328; CA 597159 A 19890419; DE 3817355 A 19880520; DE 58904693 T 19890328; ES 89105487 T 19890328;
US 33418689 A 19890406