

Title (en)

An apparatus for cooling solids laden hot gases

Title (de)

Vorrichtung zum Kühlen von mit Feststoffen beladenen Gasen

Title (fr)

Appareil pour refroidir des gaz chauds chargés de solides

Publication

EP 0722999 B1 19991229 (EN)

Application

EP 96200115 A 19960118

Priority

- EP 96200115 A 19960118
- EP 95200145 A 19950120

Abstract (en)

[origin: EP0722999A1] A self-cleaning apparatus for cooling a solids laden hot gas. The apparatus comprises a vessel with a gas inlet and a gas outlet and a plurality of (convective) heat transfer surfaces, extending longitudinally and forming a plurality of gas passages. The overall cross-sectional inlet area of the passages between the heat transfer surfaces decreases in the direction of decreasing process temperature in such a manner that the gas velocity is kept constant. <IMAGE>

IPC 1-7

C10J 3/86; **C10K 1/04**

IPC 8 full level

C10J 3/02 (2006.01); **C10J 3/46** (2006.01); **C10J 3/82** (2006.01); **C10J 3/86** (2006.01); **C10K 1/04** (2006.01); **F28C 3/12** (2006.01); **F28D 7/00** (2006.01); **F28F 13/06** (2006.01)

IPC 8 main group level

F28D (2006.01); **F28F** (2006.01)

CPC (source: EP KR)

C10J 3/02 (2013.01 - KR); **C10J 3/86** (2013.01 - EP); **C10K 1/04** (2013.01 - EP); **C10J 2300/1884** (2013.01 - EP)

Cited by

RU2744704C2; US8927610B2; US8461216B2; WO2010078252A2; US6996989B2; WO03013694A1; US7597067B2; WO2010078254A2; WO2010078256A1; US8470059B2

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EP 96200115 A 19960118; CA 2167564 A 19960118; CN 96100444 A 19960117; DE 69605825 T 19960118; ES 96200115 T 19960118; JP 2338296 A 19960118; KR 19960001087 A 19960119; ZA 96390 A 19960118