

Title (en)

PROCESS AND RADIATION COOLER FOR THE RADIATION COOLING OF A PRODUCT GAS FLOW FROM A GASIFICATION REACTOR

Publication

EP 0375894 B1 19920422 (DE)

Application

EP 89120659 A 19891108

Priority

DE 3844347 A 19881230

Abstract (en)

[origin: EP0375894A1] In a process for radiant cooling of a product gas mass flow issuing from a gasification reactor, in particular from a gasification reactor for coal gasification under pressure, and loaded with particles in a cylindrical radiant cooler with a radiant cooling shell, the product gas mass flow is aligned into concentric cylindrical layer streams by means of cylindrical radiant cooling walls arranged at a distance from the radiant cooling shell. The regions of the product gas mass flow flowing towards the radiant cooling walls are cooled down to a temperature which adequately precludes caking of the particles. A radiant cooler for carrying out the process is also indicated. <IMAGE>

IPC 1-7

C10J 3/86; **F22B 1/18**

IPC 8 full level

C10J 3/86 (2006.01); **F22B 1/18** (2006.01)

CPC (source: EP US)

C10J 3/86 (2013.01 - EP US); **C10K 1/04** (2013.01 - EP US); **F22B 1/1846** (2013.01 - EP US); **C10J 2300/1603** (2013.01 - EP US)

Cited by

US5803937A; DE4300776A1; WO9416039A1

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EP 0375894 A1 19900704; **EP 0375894 B1 19920422**; CN 1024679 C 19940525; CN 1043732 A 19900711; DD 291090 A5 19910620; DE 3844347 A1 19900705; DE 58901247 D1 19920527; ES 2031675 T3 19921216; TR 24965 A 19920729; US 5143520 A 19920901; ZA 898262 B 19900829

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