

Title (en)  
HOT GAS PURIFICATION

Title (de)  
HEISSGASREINIGUNG

Title (fr)  
EPURATION DE GAZ CHAUD

Publication  
**EP 2334403 A1 20110622 (DE)**

Application  
**EP 09778421 A 20090909**

Priority  
• EP 2009006532 W 20090909  
• DE 102008049579 A 20080930

Abstract (en)  
[origin: CA2737365A1] The invention relates to a method and to a system for treating a hot raw gas generated by an entrained-flow gasification plant, wherein the sulfurous and carbonaceous compounds are separated such that hot gas is provided for further use. This is achieved in that a desulfurization installation (7) is connected downstream in series with the gasifier (2) in the flow path of the hot gas, and a solid precipitator (8, 9) is connected downstream thereof, wherein a partial flow (13) of the gas through a water quench (14), a Venturi washer (15), a raw gas cooler (16), and an H<sub>2</sub>O separator (17) and a compressor (18) is connected downstream of the solid precipitator (8, 9), the flow path (19) thereof being cooled and circulated back behind the gasifier (2) and upstream of the desulfurization system.

IPC 8 full level  
**B01D 53/02** (2006.01); **B01D 53/48** (2006.01); **B01D 53/52** (2006.01); **C10J 3/46** (2006.01); **C10K 1/02** (2006.01); **C10K 1/20** (2006.01); **C10K 1/32** (2006.01)

CPC (source: EP KR US)  
**B01D 53/02** (2013.01 - KR); **B01D 53/48** (2013.01 - EP KR US); **B01D 53/75** (2013.01 - EP US); **C10J 3/46** (2013.01 - KR); **C10J 3/466** (2013.01 - EP US); **C10K 1/004** (2013.01 - EP US); **C10K 1/02** (2013.01 - EP KR US); **C10K 1/024** (2013.01 - EP US); **C10K 1/101** (2013.01 - EP US); **C10K 1/20** (2013.01 - EP US); **C10K 1/32** (2013.01 - EP US); **B01D 53/77** (2013.01 - EP US); **B01D 2251/404** (2013.01 - EP US); **B01D 2251/602** (2013.01 - EP US); **B01D 2251/604** (2013.01 - EP US); **B01D 2251/606** (2013.01 - EP US); **B01D 2257/2045** (2013.01 - EP US); **B01D 2257/30** (2013.01 - EP US); **C10J 2300/0916** (2013.01 - EP US); **C10J 2300/093** (2013.01 - EP US); **C10J 2300/0959** (2013.01 - EP US); **C10J 2300/1621** (2013.01 - EP US); **C10J 2300/1823** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010037465A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**DE 102008049579 A1 20100401**; AU 2009300131 A1 20100408; AU 2009300131 B2 20140717; AU 2009300131 B9 20140821; BR PI0919311 A2 20151222; CA 2737365 A1 20100408; CN 102164649 A 20110824; CN 102164649 B 20140226; EP 2334403 A1 20110622; KR 101652132 B1 20160829; KR 20110081186 A 20110713; RU 2011116929 A 20121120; RU 2496555 C2 20131027; TW 201014904 A 20100416; TW I456044 B 20141011; UA 101683 C2 20130425; US 2011173886 A1 20110721; US 8512444 B2 20130820; WO 2010037465 A1 20100408; ZA 201103103 B 20120125

DOCDB simple family (application)  
**DE 102008049579 A 20080930**; AU 2009300131 A 20090909; BR PI0919311 A 20090909; CA 2737365 A 20090909; CN 200980138049 A 20090909; EP 09778421 A 20090909; EP 2009006532 W 20090909; KR 20117008098 A 20090909; RU 2011116929 A 20090909; TW 98128605 A 20090826; UA A201105339 A 20090909; US 99823609 A 20090909; ZA 201103103 A 20110428