

Title (en)
PROCESS FOR PURIFYING RAW COMBUSTIBLE GAS FROM SOLID-FUEL GASIFICATION

Publication
EP 0412587 B1 19930922 (DE)

Application
EP 90201697 A 19900627

Priority
DE 3926575 A 19890811

Abstract (en)
[origin: US5041144A] The raw gas produced by gasification is cooled to temperatures from 150 DEG to 400 DEG C. and has an NH₃ content of at least 0.1% by volume as it is fed to a spray drying zone. Recycle water is fed to and is entirely evaporated in the spray drying zone. The raw gas from the spray drying zone contains water vapor and is passed through a filter, in which part of the solids and of the halogen compounds are collected in a dry state. The raw gas is subsequently passed through a saturation zone, in which the raw gas is directly contacted with sprayed water and is saturated with water vapor and cooled to temperatures of 50 DEG to 90 DEG C. Water which contains salt and solids and has a pH value of 7.5 to 9.5 is withdrawn from the saturation zone and is at least partly fed as recycle water to the spray drying zone. The raw gas from the saturation zone is aftertreated for a removal of liquid droplets which contains dust and salt.

IPC 1-7
C10J 3/84; **C10K 1/06**; **C10K 1/08**; **C10K 1/10**

IPC 8 full level
C10J 3/84 (2006.01); **C10K 1/06** (2006.01); **C10K 1/08** (2006.01); **C10K 1/10** (2006.01)

CPC (source: EP US)
C10J 3/84 (2013.01 - EP US); **C10K 1/024** (2013.01 - EP US); **C10K 1/026** (2013.01 - EP US); **C10K 1/06** (2013.01 - EP US);
C10K 1/08 (2013.01 - EP US); **C10K 1/10** (2013.01 - EP US); **C10K 1/101** (2013.01 - EP US); **C10J 2300/1884** (2013.01 - EP US)

Cited by
EP2015859A4; CN110105988A; EP0560039A1; US8070863B2; US8128728B2; US10948361B2; US11067456B2; US11808638B2;
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