

Title (en)  
RAW GAS QUENCHING SYSTEM

Title (de)  
ROHGASQUENCHSYSTEM

Title (fr)  
SYSTÈME DE REFROIDISSEMENT DE GAZ BRUT

Publication  
**EP 3504302 A1 20190703 (DE)**

Application  
**EP 17771371 A 20170912**

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Abstract (en)  
[origin: WO2018059924A1] The invention relates to a raw gas washing system with a high degree of deposition of dust in an entrained flow gasification device for the conversion of ash-containing fuels by means of a gasification means containing free oxygen into a raw gas with a high proportion of hydrogen, in which the fuel is converted in a gasification reactor at temperatures of between 1200 and 1900°C and method pressures of up to 10MPa into raw gas and liquid slag. According to the invention, a quenching space designed as a free-space quench contains an additional washing ring which causes a direct-current washing of the quenched raw gas. This configuration considerably reduces the particle loading of the raw gas in the raw gas output, thereby reducing subsequent raw gas purification steps.

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