

Title (en)

METHOD OF COMBUSTION OR GASIFICATION IN A CIRCULATING FLUIDIZED BED

Title (de)

VERFAHREN ZUM VERBRENNEN ODER VERGASEN IN DER ZIRKULIERENDEN WIRBELSCHICHT

Title (fr)

PROCEDE DE COMBUSTION OU DE GAZEIFICATION DANS UN LIT FLUIDISE EN CIRCULATION

Publication

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Application

EP 00901114 A 20000119

Priority

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- EP 0000378 W 20000119

Abstract (en)

[origin: US6649135B1] A material containing combustible components is burned or gasified in a circulating fluidized bed comprising a turbulence chamber, a solids separator connected to the upper area of the turbulence chamber, a return line leading from the solids separator to the turbulence chamber and a cooling device for the indirect cooling of solids arriving from the solids separator. The cooling device comprises several fluidized beds through which the solids pass one after the other. The first fluidized bed, into which the hot solids arriving from the solids separator are introduced first, is situated in a dechlorinating chamber. Fluidizing gas and at least one of the following dechlorinating additives: a) gaseous SO₂ or a material which contains sulfur and releases SO₂ in an oxidizing atmosphere, b) silicates and aluminium silicates, c) activated silicate, or d) other alkali-binding and HCl-releasing additives, are also introduced into the dechlorinating chamber in at least stoichiometric quantities so as to convert the alkali and metal chlorides contained in the arriving solids.

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