

Title (en)

METHOD FOR CONTROLLING THE TEMPERATURE IN THE COMBUSTION FURNACE OF A CLAUS UNIT

Title (de)

VERFAHREN ZUR REGELUNG DER TEMPERATUR IM VERBRENNUNGSOFEN EINER CLAUS-ANLAGE

Title (fr)

PROCÉDÉ DE RÉGULATION DE LA TEMPÉRATURE DANS LE FOUR DE COMBUSTION D'UNE UNITÉ CLAUS

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Application

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Abstract (en)

[origin: WO2013152831A1] The invention relates to a method for reducing the nitrogen content in the oxygen-containing oxidation gas of a Claus unit, by means of which control of the temperature in the combustion furnace of a Claus unit can be achieved in that a sulphur-containing acid gas is burnt in a Claus combustion furnace with the result that a sulphur dioxide-containing product gas is obtained, from which a partial stream is drawn off, which is returned to the oxygen-containing oxidation gas on the basis of a measured value with the result that an undesired increase in temperature in the combustion furnace can be avoided when an acid gas which is very rich in sulphur is fed for a certain time into the combustion furnace of a Claus unit, and at the same time a reduction in the nitrogen content in the Claus residual gas is achieved. The invention further relates to the use of a technical gas, which has been freed from the sulphur-containing acid gas by gas scrubbing, wherein said sulphur-containing acid gas has been transformed to sulphur using the claimed method, for the production of direct-reduced iron.

IPC 8 full level

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