

Title (en)

Process and plant handling nitrogen containing organic compounds by gasification

Title (de)

Verfahren und Vorrichtung zur Verwertung stickstofforganischer Verbindungen durch Vergasung

Title (fr)

Procédé et installation pour le traitement de produits organiques contenant de l' azote par gazification

Publication

EP 1099747 A2 20010516 (DE)

Application

EP 00124099 A 20001107

Priority

DE 19954188 A 19991111

Abstract (en)

Process for evaluating a material consisting of organonitrogen compounds comprises carrying out gasification under normal or elevated pressure, preferably up to 40 bar at temperatures more than 900, preferably 1100-1600 degrees C as partial oxidation using a gasifying agent containing free oxygen. The gasification occurs as a flame reaction in a fly stream gasifier. An Independent claim is also included for an apparatus for carrying out the process comprising a feed (1) connected to a fly stream gasifier (2) with a quencher (3); an effluent preparation unit (12) connected to the quencher via a pipeline; a high pressure steam generator (4) connected to a fly stream gasifier, the hot gas being introduced to a COS/HCN hydrolysis unit (6) after a hot gas filter (5); a low pressure steam generator (7) with a condenser (8); a desulfurization unit (9) which produces pure gas (10) and sulfur (11); and a pipeline (13) between the effluent preparation unit and fly stream gasifier to supply ammonia to the effluent preparation unit.

Abstract (de)

Die Erfindung betrifft ein Verfahren zur Verwertung eines im Wesentlichen aus stickstofforganischen Verbindungen bestehenden Einsatzstoffes, bei dem die Verwertung durch Vergasung unter Normaldruck oder erhöhtem Druck, vorzugsweise bis 40 bar, bei Temperaturen > 900 °C, vorzugsweise zwischen 1 100 - 1 600 °C, als Partialoxidation unter Verwendung eines freien Sauerstoff enthaltenden Vergasungsmittels erfolgt und eine Vorrichtung zur Durchführung des Verfahrens. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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