

Title (en)

BLACK WATER RECYCLE CIRCULATION LOOP USE WITH A GASIFIER

Title (de)

RÜCKKREISLAUF VON SCHWARZEM WASCHWASSER MIT EINEM VERGASER

Title (fr)

BOUCLE DE CIRCULATION DE RECYCLAGE D'EAUX USEES DOTEES D'UN GAZEIFICATEUR

Publication

EP 1377654 A2 20040107 (EN)

Application

EP 02763905 A 20020403

Priority

- US 0210331 W 20020403
- US 28224201 P 20010406

Abstract (en)

[origin: WO02081600A2] The present invention is generally directed to handling the raw syngas scrubbing wastewaters, or black water, from a quench gasification reactor. More particularly, the present invention describes recirculation of the black water in a recirculation loop from which at least a portion of the moderator used in the gasifier may be taken. The use of a recirculation loop for the black water permits the operation of the gasifier in situations such as when a source of high pressure steam is inadequate. The present invention also permits the service and maintenance of the black water treatment system while permitting the continued operation of the gasifier.

IPC 1-7

C10J 3/08; C02F 9/00; C10J 3/46

IPC 8 full level

C02F 1/00 (2006.01); **C10J 3/00** (2006.01); **C10J 3/46** (2006.01); **C10J 3/84** (2006.01); **C02F 3/06** (2006.01)

CPC (source: EP KR)

C10J 3/46 (2013.01 - KR); **C10J 3/466** (2013.01 - EP); **C10J 3/84** (2013.01 - EP); **C10K 1/004** (2013.01 - EP); **C10K 1/101** (2013.01 - EP);
C02F 1/001 (2013.01 - EP); **C02F 3/00** (2013.01 - EP); **C02F 2103/18** (2013.01 - EP); **C02F 2103/365** (2013.01 - EP);
C10J 2300/169 (2013.01 - EP); **C10J 2300/1807** (2013.01 - EP); **Y02E 20/18** (2013.01 - EP)

Citation (search report)

See references of WO 02081600A2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 02081600 A2 20021017; WO 02081600 A3 20030227; AR 033124 A1 20031203; CA 2442060 A1 20021017; CA 2442060 C 20110809;
CN 1500135 A 20040526; EP 1377654 A2 20040107; JP 2004532105 A 20041021; KR 20030087061 A 20031112

DOCDB simple family (application)

US 0210331 W 20020403; AR P020101266 A 20020405; CA 2442060 A 20020403; CN 02807704 A 20020403; EP 02763905 A 20020403;
JP 2002579967 A 20020403; KR 20037013076 A 20031006