Title (en)
A GAS REFORMULATION SYSTEM COMPRISING MEANS TO OPTIMIZE THE EFFECTIVENESS OF GAS CONVERSION

Title (de)
GASREFORMULIERUNGSSYSTEM MIT MITTELN ZUR OPTIMIERUNG DER EFFEKTIVITÄT DER GASUMWANDLUNG

Title (fr)
SYSTÈME DE REFORMULATION DE GAZ COMPRENANT DES MOYENS D'OPTIMISATION DE L'EFFICACITÉ DE CONVERSION D'UN GAZ

Publication
EP 2183045 A1 20100512 (EN)

Application
EP 08748281 A 20080512

Priority
- CA 2008000882 W 20080512
- US 95032207 P 20070717
- US 98621307 P 20071107
- US 98621207 P 20071107
- CA 2008000355 W 20080227
- US 4257108 P 20080404

Abstract (en)
[origin: KR20100044853A] This invention provides a system and method for efficient reformulation of an initial gas with associated characteristics into an output gas with desired characteristic parameters, within a substantially sealed, contained, and controlled environment. The gas reformulating system uses a gas energizing field to disassociate the initial gas molecules and molecules of injected process additives of appropriate types and amounts, into their constituents that then recombine to form the output gas with the desired parameters. The gas reformulating system further comprises a control system that regulates the process and thereby enables the process to be optimized. The gas energizing field may be provided at least partly by hydrogen burners or plasma torches.

IPC 8 full level
B01J 7/00 (2006.01); B01J 19/08 (2006.01); C01B 3/48 (2006.01); C10J 3/00 (2006.01); C10J 3/82 (2006.01); C10K 3/04 (2006.01); C10L 3/10 (2006.01); H05H 1/26 (2006.01)

CPC (source: EP)
C01B 3/48 (2013.01); C10J 3/002 (2013.01); C10J 3/82 (2013.01); C10K 3/04 (2013.01); C10L 3/10 (2013.01); C01B 2203/0283 (2013.01); C01B 2203/0435 (2013.01); C10J 2300/1618 (2013.01); Y02P 20/52 (2015.11)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
CN 101801515 A 20100811; CN 101801515 B 20130925; DO P2010000020 A 20100331; EP 2183045 A1 20100512; EP 2183045 A4 20120829; JP 2010533742 A 20101028; KR 101338266 B1 20131209; KR 20100044853 A 20100430; MX 2010000616 A 20111212; MY 150298 A 20131231; ZA 201001043 B 20111026

DOCDB simple family (application)
CN 200880107371 A 20080512; DO 2010000020 A 20100114; EP 08748281 A 20080512; JP 2010516330 A 20080512; KR 20107003450 A 20080512; MX 2010000616 A 20080512; MY PI20100234 A 20080512; ZA 201001043 A 20100212