

Title (en)

SYSTEMS AND METHODS FOR GAS DISPOSAL

Title (de)

SYSTEME UND VERFAHREN ZUR GASENTSORGUNG

Title (fr)

SYSTÈME ET PROCÉDÉ DE MISE AU REBUT DE GAZ

Publication

EP 3195923 A1 20170726 (EN)

Application

EP 17150810 A 20170110

Priority

US 201614997287 A 20160115

Abstract (en)

A discharge system includes a mixing vessel (102) and a feedstock input (104) in fluid communication with the mixing vessel (102). A solvent input (106) is in fluid communication with the mixing vessel (102). A discharge output (110) is in fluid communication with an outlet (112) of the mixing vessel (102) to discharge effluent. A method for generating turbulence on a liquid surface within a discharge system includes supplying a mixing vessel (102) with feedstock fluid and solvent fluid to generate a liquid mixture and a gas pocket in the mixing vessel (102). The method includes supplying an impinging solvent fluid through a nozzle (118) extending from a first (107) end of the mixing vessel (102) to generate a roiling surface at an interface (113) between the gas pocket and the liquid mixture and permit uptake of gas from the gas pocket into the liquid mixture.

IPC 8 full level

B01F 3/04 (2006.01); **B01F 5/00** (2006.01); **B63G 8/34** (2006.01)

CPC (source: EP)

B01F 23/23121 (2022.01); **B01F 23/2341** (2022.01); **B01F 25/103** (2022.01); **B63G 8/34** (2013.01)

Citation (search report)

- [X] US 4850269 A 19890725 - HANCOCK MARK W [US], et al
- [X] NL 9001805 A 19910102 - LANDBOUWMECHANISATIEBEDRIJF B
- [A] US 3425669 A 19690204 - GADDIS PRESTON G

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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