

Title (en)

INTEGRATED INSTALLATION AND METHOD FOR FLEXIBLY USING ELECTRICITY

Title (de)

INTEGRIERTE ANLAGE UND VERFAHREN ZUM FLEXIBLEN EINSATZ VON STROM

Title (fr)

INSTALLATION INTÉGRÉE ET PROCÉDÉ D'UTILISATION SOUPLE DE COURANT ÉLECTRIQUE

Publication

EP 3003981 A1 20160413 (DE)

Application

EP 14724027 A 20140430

Priority

- DE 102013209883 A 20130528
- EP 2014058780 W 20140430

Abstract (en)

[origin: WO2014191148A1] The present invention relates to an integrated installation, which comprises an installation for electrothermally producing hydrocyanic acid and an installation for generating electricity, wherein the installation for electrothermally producing hydrocyanic acid is connected via a line to the installation for generating electricity, and electricity is generated in the installation for generating electricity from a product gas obtained in the installation for electrothermally producing hydrocyanic acid. This integrated installation allows for the flexible use of electricity using a method, in which the installation for electrothermally producing hydrocyanic acid is operated at times of high electricity supply and at least a portion of hydrogen obtained along with hydrocyanic acid and/or gaseous hydrocarbons is stored, and stored hydrogen and/or gaseous hydrocarbons are fed to the installation for generating electricity at times of low electricity supply.

IPC 8 full level

C01C 3/02 (2006.01); **B01J 19/08** (2006.01)

CPC (source: EP US)

B01J 8/24 (2013.01 - US); **B01J 19/088** (2013.01 - US); **B01J 19/24** (2013.01 - US); **C01B 3/00** (2013.01 - EP US); **C01B 3/0005** (2013.01 - EP US); **C01B 3/50** (2013.01 - EP US); **C01C 3/0229** (2013.01 - EP US); **C01C 3/0233** (2013.01 - EP US); **C01C 3/025** (2013.01 - EP US); **F01K 23/10** (2013.01 - US); **F02C 3/22** (2013.01 - US); **H01M 8/0606** (2013.01 - US); **B01J 2208/00389** (2013.01 - US); **B01J 2219/00006** (2013.01 - US); **B01J 2219/00132** (2013.01 - US); **B01J 2219/0871** (2013.01 - US); **C01B 2203/066** (2013.01 - EP US); **C01B 2203/84** (2013.01 - EP US); **Y02E 20/16** (2013.01 - EP US); **Y02E 60/32** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP); **Y02P 20/129** (2015.11 - EP US)

Citation (search report)

See references of WO 2014191148A1

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

DOCDB simple family (publication)

DE 102013209883 A1 20141204; AR 096421 A1 20151230; EP 3003981 A1 20160413; JP 2016521669 A 20160725; US 2016108809 A1 20160421; WO 2014191148 A1 20141204

DOCDB simple family (application)

DE 102013209883 A 20130528; AR P140102069 A 20140526; EP 14724027 A 20140430; EP 2014058780 W 20140430; JP 2016515689 A 20140430; US 201414893524 A 20140430