

Title (en)

REGULATORY CONTROLLER FOR USAGE IN A CATALYTIC OLEFINS UNIT

Title (de)

REGULATORISCHE STEUERUNG ZUR VERWENDUNG IN EINER KATALYTISCHEN OLEFINEINHEIT

Title (fr)

DISPOSITIF DE COMMANDE RÉGULATEUR DESTINÉ À ÊTRE UTILISÉ DANS UNE UNITÉ CATALYTIQUE D'OLÉFINES

Publication

**EP 3797143 A4 20220302 (EN)**

Application

**EP 19808208 A 20190523**

Priority

- US 201862675452 P 20180523
- US 2019033665 W 20190523

Abstract (en)

[origin: CN112166171A] An advanced regulatory controller for a converter of a catalytic olefins unit is disclosed. A Fluid Catalytic Cracking (FCC) type converter (i.e., reactor-regenerator) is combined with an ethylene style cold-end for product recovery. The regulatory controller operates using an Advanced Regulatory Control (ARC) application using variables, such as a controlled variable, four disturbance variables, associated variable, and a manipulated variable. The ARC application manipulates fuel oil or tail gas flow to a regenerator in response to an expected future steady state value of a regenerator bed temperature resulting from changes in the values of a selected set of the variables.

IPC 8 full level

**C10G 3/00** (2006.01); **B01J 8/08** (2006.01); **B01J 38/22** (2006.01); **C10G 11/18** (2006.01)

CPC (source: EP KR)

**B01J 8/1809** (2013.01 - EP); **B01J 8/1818** (2013.01 - EP); **B01J 8/26** (2013.01 - EP); **B01J 38/30** (2013.01 - EP); **C10G 3/42** (2013.01 - KR); **C10G 3/60** (2013.01 - KR); **C10G 11/182** (2013.01 - EP); **C10G 11/187** (2013.01 - EP KR); **B01J 2208/00017** (2013.01 - EP); **B01J 2208/00504** (2013.01 - EP); **B01J 2208/00548** (2013.01 - EP); **C10G 2300/1088** (2013.01 - KR); **C10G 2300/4006** (2013.01 - KR); **C10G 2400/20** (2013.01 - EP); **Y02P 30/20** (2015.11 - EP)

Citation (search report)

- [A] US 3769203 A 19731030 - LEE W, et al
- [A] US 3410793 A 19681112 - STRANAHAN JOHN J, et al
- See also references of WO 2019226854A1

Designated contracting state (EPC)

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CN 112166171 A 20210101; CN 112166171 B 20230131; EP 3797143 A1 20210331; EP 3797143 A4 20220302

DOCDB simple family (application)

CN 201980034551 A 20190523; EP 19808208 A 20190523