

Title (en)

PRESSURE SWING CATALYST REGENERATION PROCEDURE FOR FISCHER-TROPSCH CATALYST

Title (de)

DRUCKWECHSEL-KATALYSATORREGENERATIONSMETHODE FÜR FISCHER-TROPSCH-KATALYSATOR

Title (fr)

PROCEDURE DE REGENERATION D'UN CATALYSEUR PAR VARIATION DE LA PRESSION DESTINEE A UN CATALYSEUR FISCHER-TROPSCH

Publication

**EP 1392434 A4 20080702 (EN)**

Application

**EP 02731815 A 20020517**

Priority

- US 0215460 W 20020517
- US 29192401 P 20010517

Abstract (en)

[origin: WO02092227A1] A process is disclosed for regenerating a catalyst (60) used in a process for synthesizing hydrocarbons (40). The synthesis process involves contacting a feed stream (10) comprising hydrogen and carbon monoxide with a catalyst (50) in a reaction zone (30) maintained at conversion-promoting conditions effective to produce an effluent stream comprising hydrocarbons (40). The regeneration process involves contacting a deactivated Fischer-Tropsch catalyst (60) with a regeneration gas (70) under regeneration-promoting conditions that include a pressure lower than the mean Fischer-Tropsch reaction pressure, for a period of time sufficient to reactivate the Fischer-Tropsch catalyst (60).

IPC 8 full level

**B01J 38/12** (2006.01); **B01J 20/34** (2006.01); **B01J 23/94** (2006.01); **B01J 38/04** (2006.01); **B01J 38/06** (2006.01); **B01J 38/10** (2006.01); **C07C 1/04** (2006.01); **C07C 27/00** (2006.01); **C07C 27/06** (2006.01); **C10G 2/00** (2006.01)

CPC (source: EP)

**B01J 23/94** (2013.01); **B01J 38/06** (2013.01); **B01J 38/10** (2013.01); **B01J 38/12** (2013.01); **C10G 2/32** (2013.01); **C10G 2300/703** (2013.01)

Citation (search report)

- [PXL] WO 0136352 A1 20010525 - CONOCO INC [US]
- [X] US 5545674 A 19960813 - BEHRMANN WILLIAM C [US], et al
- [A] GB 2299767 A 19961016 - NORSKE STATS OLJESELSKAP [NO]
- [A] US 5821270 A 19981013 - CHANG MIN [US], et al
- [A] US 5728918 A 19980317 - NAY BARRY [GB], et al
- See references of WO 02092227A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 02092227 A1 20021121**; AU 2002303759 B2 20061019; CA 2445918 A1 20021121; CA 2445918 C 20070731; EP 1392434 A1 20040303; EP 1392434 A4 20080702; ZA 200308267 B 20050527

DOCDB simple family (application)

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