

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)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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)

US 0215460 W 20020517; AU 2002303759 A 20020517; CA 2445918 A 20020517; EP 02731815 A 20020517; ZA 200308267 A 20031023