

Title (en)

COBALT AND TIN CATALYST FOR PRODUCING ETHANOL

Title (de)

KOBALT- UND ZINNKATALYSATOR ZUR HERSTELLUNG VON ETHANOL

Title (fr)

CATALYSEUR À BASE DE COBALT ET D'ÉTAIN DESTINÉ À LA PRÉPARATION D'ÉTHANOL

Publication

**EP 2797865 A1 20141105 (EN)**

Application

**EP 12814099 A 20121221**

Priority

- US 201161581290 P 20111229
- US 201213408240 A 20120229
- US 201213418749 A 20120313
- US 201213480187 A 20120524
- US 2012071355 W 20121221

Abstract (en)

[origin: WO2013101756A1] The present invention relates to a process for the formation of alcohols from alkanolic acids, the steps of the process comprising: contacting a feed stream containing the alkanolic acid and hydrogen at an elevated temperature with a hydrogenating catalyst comprising from 3 to 25 wt.% of active metals on a support, wherein the active metals comprise cobalt and tin.

IPC 8 full level

**C07C 29/149** (2006.01); **C07C 31/08** (2006.01)

CPC (source: CN EP)

**B01J 23/835** (2013.01 - CN EP); **B01J 23/8966** (2013.01 - CN EP); **B01J 37/0205** (2013.01 - CN EP); **B01J 37/088** (2013.01 - CN EP); **C07C 29/149** (2013.01 - CN EP); **B01J 35/40** (2024.01 - CN EP); **B01J 35/51** (2024.01 - CN EP); **B01J 35/613** (2024.01 - CN EP); **B01J 35/615** (2024.01 - CN EP); **B01J 35/635** (2024.01 - CN EP); **B01J 35/638** (2024.01 - CN EP); **B01J 35/647** (2024.01 - CN EP)

Citation (search report)

See references of WO 2013101756A1

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

DOCDB simple family (publication)

**WO 2013101756 A1 20130704**; BR 112014015080 A2 20170613; BR 112014015080 A8 20170613; CN 104039747 A 20140910; CN 104039747 B 20161221; EP 2797865 A1 20141105; MX 2014007394 A 20140821

DOCDB simple family (application)

**US 2012071355 W 20121221**; BR 112014015080 A 20121221; CN 201280064873 A 20121221; EP 12814099 A 20121221; MX 2014007394 A 20121221