

Title (en)  
METHOD FOR PRODUCTION OF PROPANOL, PROPIONALDEHYDE AND/OR PROPIONIC ACID FROM CARBON DIOXIDE, WATER AND ELECTRICAL ENERGY

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON PROPANOL, PROPIONALDEHYD UND/ODER PROPIONSÄURE AUS KOHLENDIOXID, WASSER UND ELEKTRISCHER ENERGIE

Title (fr)  
PROCÉDÉ DE PRODUCTION DE PROPANOL, D'ALDÉHYDE PROPIONIQUE ET/OU D'ACIDE PROPIONIQUE À PARTIR DU DIOXYDE DE CARBONE, D'EAU ET D'ÉNERGIE ÉLECTRIQUE

Publication  
**EP 3485065 A1 20190522 (DE)**

Application  
**EP 17761033 A 20170821**

Priority  
• DE 102016218235 A 20160922  
• EP 2017070991 W 20170821

Abstract (en)  
[origin: WO2018054627A1] The invention relates to a method for production of propanol, propionaldehyde, and/or propionic acid, wherein CO and C<sub>2</sub>H<sub>4</sub> are provided from electrolysis of CO<sub>2</sub>, and preferably hydrogen is also electrolytically provided, and the CO and C<sub>2</sub>H<sub>4</sub> is converted with H<sub>2</sub> to propanol and/or propionaldehyde and/or the CO and C<sub>2</sub>H<sub>4</sub> are converted with H<sub>2</sub>O to propionic acid.

IPC 8 full level  
**C07C 29/16** (2006.01); **C07C 45/50** (2006.01); **C07C 51/12** (2006.01); **C07C 51/235** (2006.01); **C07C 51/285** (2006.01); **C25B 3/25** (2021.01); **C25B 15/08** (2006.01)

CPC (source: EP US)  
**C07C 29/16** (2013.01 - EP US); **C07C 45/50** (2013.01 - EP US); **C07C 51/12** (2013.01 - EP US); **C07C 51/235** (2013.01 - EP US); **C07C 51/285** (2013.01 - EP US); **C25B 1/00** (2013.01 - EP US); **C25B 1/04** (2013.01 - EP US); **C25B 3/25** (2021.01 - EP US); **C25B 9/73** (2021.01 - EP US); **C25B 11/057** (2021.01 - US); **C25B 15/02** (2013.01 - US); **C25B 15/08** (2013.01 - EP US); **C07C 31/10** (2013.01 - US); **C07C 47/02** (2013.01 - US); **Y02E 60/36** (2013.01 - EP US); **Y02P 20/129** (2015.11 - EP US)

Citation (search report)  
See references of WO 2018054627A1

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 102016218235 A1 20180322**; AU 2017329432 A1 20190328; AU 2017329432 B2 20191003; CN 109715859 A 20190503; EP 3485065 A1 20190522; US 2019249317 A1 20190815; WO 2018054627 A1 20180329

DOCDB simple family (application)  
**DE 102016218235 A 20160922**; AU 2017329432 A 20170821; CN 201780058153 A 20170821; EP 17761033 A 20170821; EP 2017070991 W 20170821; US 201716333814 A 20170821