

Title (en)  
PROCESSES FOR MAKING ETHANOL FROM ACETIC ACID

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON ETHANOL AUS ESSIGSÄURE

Title (fr)  
PROCÉDÉS DE FABRICATION D'ÉTHANOL À PARTIR D'ACIDE ACÉTIQUE

Publication  
**EP 2493608 A1 20120905 (EN)**

Application  
**EP 10703399 A 20100202**

Priority

- US 58872709 A 20091026
- US 2010022947 W 20100202

Abstract (en)  
[origin: WO2011053365A1] A process for selective formation of ethanol from acetic acid by hydrogenating acetic acid in the presence of first metal, a siliceous support, and at least one support modifier. Preferably, the first metal is selected from the group consisting of copper, iron, cobalt, nickel, ruthenium, rhodium, palladium, osmium, iridium, platinum, titanium, zinc, chromium, rhenium, molybdenum, and tungsten. In addition the catalyst may comprise a second metal preferably selected from the group consisting of copper, molybdenum, tin, chromium, iron, cobalt, vanadium, tungsten, palladium, platinum, lanthanum, cerium, manganese, ruthenium, rhenium, gold, and nickel.

IPC 8 full level  
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CPC (source: EP)  
**B01J 23/002** (2013.01); **B01J 23/626** (2013.01); **B01J 23/6567** (2013.01); **B01J 37/0201** (2013.01); **B01J 37/0207** (2013.01); **B01J 37/08** (2013.01); **C07C 1/24** (2013.01); **C07C 29/149** (2013.01); **B01J 21/16** (2013.01); **B01J 2523/00** (2013.01); **Y02P 20/52** (2015.11)

Citation (search report)  
See references of WO 2011053365A1

Citation (examination)

- US 5243095 A 19930907 - ROBERTS BRIAN D [US], et al
- WO 2010014153 A2 20100204 - CELANESE INT CORP [US], et al

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