

Title (en)
ALKYNE HYDROGENATION PROCESS

Title (de)
VERFAHREN ZUR HYDRIERUNG VON ALKINEN

Title (fr)
PROCEDE D'HYDROGENATION D'ALCYNE

Publication
EP 1150936 A4 20020417 (EN)

Application
EP 00907282 A 20000214

Priority
• US 0003659 W 20000214
• US 25295499 A 19990218

Abstract (en)
[origin: WO0048970A1] A method of improving the operation of a process system used for conversion of C2-C6 alkynes (preferably acetylene) contained in a hydrocarbon-containing fluid with hydrogen to the corresponding alkenes. The process system, before improvement, utilizes a volumetric amount of a hydrogenation catalyst required for providing conversion of the C2-C6 alkynes to a conversion product containing less alkynes than the hydrocarbon-containing fluid. The method of improvement involves contacting, in a single-stage adiabatic reaction zone, under reaction conditions, the hydrocarbon-containing fluid containing C2-C6 alkynes (preferably acetylene) with a catalyst containing palladium, silver, and an alkali metal compound (preferably an alkali metal fluoride) in a conversion-improving volumetric amount that is less than the volumetric amount of hydrogenation catalyst.

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C07C 5/09 (2006.01); **C07C 7/167** (2006.01)

CPC (source: EP)
C07C 5/09 (2013.01); **C07C 7/167** (2013.01); **C07C 2523/04** (2013.01); **C07C 2523/44** (2013.01); **C07C 2523/50** (2013.01); **C07C 2523/66** (2013.01)

C-Set (source: EP)
1. **C07C 5/09** + **C07C 11/02**
2. **C07C 7/167** + **C07C 11/02**

Citation (search report)
• No further relevant documents disclosed
• See references of WO 0048970A1

Designated contracting state (EPC)
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