

Title (en)
PROCESS FOR PREPARING ACRYLIC ACID WITH HIGH SPACE-TIME YIELD

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ACRYLSÄURE MIT HOHER RAUM-ZEIT-AUSBEUTE

Title (fr)
PROCÉDÉ DE PRODUCTION D'ACIDE ACRYLIQUE À RENDEMENT ESPACE-TEMPS ÉLEVÉ

Publication
EP 2997004 A1 20160323 (DE)

Application
EP 14722679 A 20140509

Priority
• DE 102013008207 A 20130514
• US 201361822950 P 20130514
• EP 2014059521 W 20140509

Abstract (en)
[origin: US2014343319A1] In a process for preparing acrylic acid, a reaction gas which comprises a gaseous formaldehyde source and gaseous acetic acid and in which the partial pressure of the formaldehyde source, calculated as formaldehyde equivalents, is at least 85 mbar and in which the molar ratio of the acetic acid to the formaldehyde source, calculated as formaldehyde equivalents, is at least 1 is contacted with a solid condensation catalyst. The space-time yield can be enhanced significantly by increasing the partial pressure of the reactants. The space-time yield remains high even after prolonged process duration.

IPC 8 full level
C07C 51/353 (2006.01); **C07C 57/04** (2006.01)

CPC (source: EP US)
C07C 51/353 (2013.01 - EP US); **C07C 51/377** (2013.01 - US)

Citation (search report)
See references of WO 2014184099A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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DOCDB simple family (publication)
US 2014343319 A1 20141120; BR 112015028366 A2 20170725; CN 105377801 A 20160302; DE 102013008207 A1 20141120; EP 2997004 A1 20160323; JP 2016521288 A 20160721; KR 20160007523 A 20160120; RU 2015153253 A 20170619; WO 2014184099 A1 20141120; ZA 201508898 B 20190424

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US 201414277414 A 20140514; BR 112015028366 A 20140509; CN 201480039981 A 20140509; DE 102013008207 A 20130514; EP 14722679 A 20140509; EP 2014059521 W 20140509; JP 2016513302 A 20140509; KR 20157032128 A 20140509; RU 2015153253 A 20140509; ZA 201508898 A 20151207