

Title (en)  
METHOD FOR SYNTHESIZING HYDROCYANIC ACID FROM FORMAMIDE - CATALYST

Title (de)  
VERFAHREN ZUR BLAUSÄURESYNTHESE AUS FORMAMID - KATALYSATOR

Title (fr)  
PROCÉDÉ DE SYNTHÈSE D'ACIDE CYANHYDRIQUE À PARTIR DE FORMAMIDE EN PRÉSENCE D'UN CATALYSEUR

Publication  
**EP 2984037 A1 20160217 (DE)**

Application  
**EP 14718544 A 20140409**

Priority  
• EP 13163130 A 20130410  
• EP 2014057112 W 20140409  
• EP 14718544 A 20140409

Abstract (en)  
[origin: WO2014166975A1] The invention relates to a method for producing hydrocyanic acid by the thermolysis of gaseous formamide in a reactor in the presence of a catalyst, wherein a) the catalyst (i) is an aluminum oxide catalyst, containing - 90 to 100 wt%, preferably 99 to 100 wt%, of aluminum oxide as component A, - 0 to 10 wt%, preferably 0 to 1 wt%, of silicon dioxide as component B, and - 0 to at most 0.1 wt% of iron or compounds containing iron as component C, wherein the total sum of components A, B, and C is 100 wt%, and (ii) has a BET surface area, measured as per DIN ISO 9277 : 2003-05, of < 1 m<sup>2</sup>/g, and (iii) is tempered at temperatures of > 1400 °C for 1 to 30 h, preferably ≥ 1500 °C for 1 to 30 h, especially preferably at 1500 °C to 1800 °C for 2 to 10 h, and b) the reactor has an inner surface that is inert with respect to the thermolysis of formamide; and use of the catalyst in a method for producing hydrocyanic acid by the thermolysis of gaseous formamide in a reactor that has an inner surface that is inert with respect to the thermolysis of formamide.

IPC 8 full level  
**C01C 3/02** (2006.01); **B01J 21/04** (2006.01); **B01J 21/12** (2006.01); **B01J 35/10** (2006.01)

CPC (source: EP US)  
**B01J 21/04** (2013.01 - EP US); **B01J 21/12** (2013.01 - EP US); **B01J 23/745** (2013.01 - EP US); **B01J 35/612** (2024.01 - EP US);  
**C01C 3/0204** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014166975A1

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)  
**WO 2014166975 A1 20141016**; BR 112015025843 A2 20170725; CN 105307978 A 20160203; EP 2984037 A1 20160217;  
JP 2016519644 A 20160707; MX 2015014279 A 20160928; RU 2015148000 A 20170515; US 2016052793 A1 20160225

DOCDB simple family (application)  
**EP 2014057112 W 20140409**; BR 112015025843 A 20140409; CN 201480032881 A 20140409; EP 14718544 A 20140409;  
JP 2016506946 A 20140409; MX 2015014279 A 20140409; RU 2015148000 A 20140409; US 201414783314 A 20140409