

Title (en)

METHOD FOR PRODUCING ISOCYANATES IN THE GAS PHASE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ISOCYANATEN IN DER GASPHASE

Title (fr)

PROCÉDÉ DE PRÉPARATION D'ISOCYANATES EN PHASE GAZEUSE

Publication

**EP 3194363 A1 20170726 (DE)**

Application

**EP 15763939 A 20150918**

Priority

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- EP 15171773 A 20150612
- EP 2015071436 W 20150918

Abstract (en)

[origin: WO2016042124A1] The invention relates to a method for producing isocyanates by reacting the corresponding primary amines with phosgene in the gas phase, wherein the phosgene is injected into the gaseous amine flow in the interior of a flow tube via an outer ring channel and through several radial channels in an angle of  $\leq 90^\circ$  relative to the flow direction of the gaseous amine flow, wherein a static mixer of the Kenics type is provided coaxially in the interior of the flow tube.

IPC 8 full level

**C07C 263/10** (2006.01)

CPC (source: EP KR US)

**B01J 8/065** (2013.01 - KR); **B01J 19/1812** (2013.01 - KR); **C07C 263/10** (2013.01 - EP KR US); **C07C 265/14** (2013.01 - KR); **B01J 2219/00051** (2013.01 - KR); **B01J 2219/00162** (2013.01 - KR); **B01J 2219/00166** (2013.01 - KR)

Citation (search report)

See references of WO 2016042124A1

Cited by

US10689477B2; US10689481B2; US10865269B2; US10793666B2

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Designated extension state (EPC)

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**WO 2016042124 A1 20160324**; CN 106715385 A 20170524; CN 106715385 B 20200414; EP 3194363 A1 20170726; JP 2017527596 A 20170921; KR 20170058927 A 20170529; US 2017305842 A1 20171026

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