

Title (en)  
CONTINUOUS METHOD FOR SEPARATING SALTS IN THE PRODUCTION OF DIMETHYLACETAMIDE

Title (de)  
KONTINUIERLICHES VERFAHREN ZUR ABTRENNUNG VON SALZEN BEI DER HERSTELLUNG VON DIMETHYLACETAMID

Title (fr)  
PROCÉDÉ CONTINU POUR LA SÉPARATION DE SELS LORS DE LA PRÉPARATION DE DIMÉTHYLACÉTAMIDE

Publication  
**EP 2935203 A1 20151028 (DE)**

Application  
**EP 13815464 A 20131218**

Priority  
• EP 12197998 A 20121219  
• EP 2013077087 W 20131218  
• EP 13815464 A 20131218

Abstract (en)  
[origin: WO2014095999A1] The invention relates to a continuous method for separating out a solid, saline phase containing alkaline and/or alkaline earth acetates from the product mixture of the production of N,N-dimethylacetamide (DMAc) by reacting methyl acetate (MeOAc) with dimethylamine (DMA) in the presence of a catalyst containing N,N-dimethylacetamide (DMAc), methyl acetate (MeOAc), dimethylamine (DMA) and a catalyst, with the following method steps: level-regulated feeding of the product mix as a feed flow into an evaporation container of a forced circulation reboiler; flash evaporation of volatile components of the product mix in the forced circulation reboiler with the formation of a vapour phase containing N,N-dimethylacetamide (DMAc) and precipitation of a solid, saline phase containing alkaline or alkaline earth acetates; feed back of the volatile components of the product mixture obtained after flash evaporation; discharging an N,N-dimethylacetamide (DMAc) containing a vapour phase from the evaporator container as a discharge flow; concentration of the solid, saline phase containing alkaline or alkaline earth acetates in the forced circulation reboiling circuit of the forced circulation reboiler; separation of a partial flow comprising the solid, saline phase containing alkaline and/or alkaline earth acetates from the forced circulation reboiling circuit of the forced circulation reboiler; solid/liquid separation of the separated partial flow in at least one separator into a solid, saline phase containing alkaline and/or alkaline earth acetates and a liquid phase; and feeding of the liquid phase obtained after the solid/liquid separation back into the forced circulation reboiling circuit as a feedback flow. The method is characterized in that the volatile components of the product mix obtained after flash evaporation and the solid, saline phase containing alkaline and/or alkaline earth acetates are fed back into the evaporation container through an infeed which ends in a range from 30 cm above the level surface to 20 cm below the level surface of the fill level of the evaporation container.

IPC 8 full level  
**C07C 231/02** (2006.01)

CPC (source: EP US)  
**B01D 3/06** (2013.01 - US); **B01D 3/42** (2013.01 - US); **C07C 231/02** (2013.01 - EP US); **C07C 231/24** (2013.01 - US)

Citation (search report)  
See references of WO 2014095999A1

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 2014095999 A1 20140626**; CN 104981453 A 20151014; EP 2935203 A1 20151028; JP 2016505583 A 20160225; US 2015329477 A1 20151119

DOCDB simple family (application)  
**EP 2013077087 W 20131218**; CN 201380072725 A 20131218; EP 13815464 A 20131218; JP 2015548481 A 20131218; US 201314653094 A 20131218