

Title (en)
REDUCTION OF BIURET GENERATION IN THE PRODUCTION OF UREA

Title (de)
REDUZIERUNG DER BIURETGENERATION IN DER HARNSTOFFPRODUKTION

Title (fr)
RÉDUCTION DE LA GÉNÉRATION DE BIURET DANS LA PRODUCTION D'URÉE

Publication
EP 3997051 A1 20220518 (DE)

Application
EP 20733371 A 20200608

Priority
• DE 102019118702 A 20190710
• EP 2020065784 W 20200608

Abstract (en)
[origin: WO2021004713A1] The invention relates to devices for producing granulated urea with a low biuret content, comprising a synthesizing unit, an evaporator unit, a feed pump, a granulation unit, and multiple lines with different diameters or different or identical cross-sectional areas through which the urea can be guided from the evaporator unit to the granulation unit. The diameter or the cross-sectional area of the lines is dimensioned such that an optimal dwell time of the urea in the line can be ensured using one or more lines with a full load as well as with a partial load. Additional aspects of the invention relate to the use of corresponding devices for producing granulated urea with a low biuret content and to methods for producing granulated urea using the aforementioned devices.

IPC 8 full level
C05C 9/00 (2006.01); **C07C 273/16** (2006.01)

CPC (source: EP)
C05C 9/005 (2013.01); **C05G 5/12** (2020.02); **C07C 273/16** (2013.01); **B01J 2/16** (2013.01); **Y02P 20/141** (2015.11)

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)
DE 102019118702 A1 20210114; EP 3997051 A1 20220518; JP 2022539824 A 20220913; JP 2024041900 A 20240327;
WO 2021004713 A1 20210114

DOCDB simple family (application)
DE 102019118702 A 20190710; EP 2020065784 W 20200608; EP 20733371 A 20200608; JP 2022500697 A 20200608;
JP 2024002576 A 20240111