

Title (en)
PROCESS FOR PRODUCING AN AMMONIUM NITRATE OR CALCIUM AMMONIUM NITRATE FERTILIZER GRANULATE AND FERTILIZER GRANULATES PRODUCED THEREBY

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES AMMONIUMNITRAT ODER CALCIUMAMMONIUMNITRAT DÜNGEMITTELGRANULATS UND DIE DAMIT HERGESTELLTEN DÜNGEMITTELGRANULATE

Title (fr)
PROCÉDÉ DE FABRICATION D'UN GRANULÉ D'ENGRAIS DE NITRATE D'AMMONIUM OU DE NITRATE DE CALCIUM ET D'AMMONIUM, ET GRANULÉS D'ENGRAIS FABRIQUÉS À L'AIDE DE CE PROCÉDÉ

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EP 3720832 A1 20201014 (DE)

Application
EP 18814842 A 20181203

Priority
• DE 102017221789 A 20171204
• EP 2018083276 W 20181203

Abstract (en)
[origin: WO2019110470A1] The present invention relates to a process for producing a fertilizer granulate comprising at least one ammonium salt and also limestone and/or dolomite and/or magnesite as filler, wherein at least a proportion of the limestone or dolomite or magnesite has been at least partially calcinated prior to use in the fertilizer granulate. The invention proposes a specific adjustment of the reactivity of the filler by means of the degree of calcination and/or the calcite proportion thereof. If for example dolomite is used as filler the calcination results in elimination of carbon dioxide from the mineral. This calcination is a two-stage procedure where the dolomite is initially converted into periclase (MgO) and calcite (CaCO₃) and the calcite is converted into calcium oxide by decomposition and elimination of carbon dioxide only at a higher temperature. Figure 3 shows the contents of dolomite, calcite, periclase and calcium oxide (and also its hydration product calcium hydroxide) as a function of different calcination conditions.

IPC 8 full level
C05C 1/00 (2006.01); **C05C 1/02** (2006.01); **C05D 3/02** (2006.01); **C05D 5/00** (2006.01)

CPC (source: EP US)
C05C 1/00 (2013.01 - EP); **C05C 1/02** (2013.01 - EP US); **C05C 3/005** (2013.01 - US); **C05D 3/02** (2013.01 - EP); **C05D 5/00** (2013.01 - EP); **C05G 5/12** (2020.02 - US)

Citation (search report)
See references of WO 2019110470A1

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