

Title (en)  
ORGANIC WATER-SOLUBLE FERTILISER WITH HUMIC PROPERTIES

Title (de)  
ORGANISCHES WASSERLÖSLICHES DÜNGEMITTEL MIT HUMINSTOFFCHARAKTER

Title (fr)  
ENGRAIS HYDROSOLUBLE ORGANIQUE À CARACTÈRE DE SUBSTANCE HUMIQUE

Publication  
**EP 4118059 A1 20230118 (DE)**

Application  
**EP 21709437 A 20210309**

Priority  
• EP 20162500 A 20200311  
• EP 2021055866 W 20210309

Abstract (en)  
[origin: WO2021180688A1] The invention relates to an organic water-soluble fertiliser, in solid form, with humic properties, comprising carbon and nitrogen with a carbon-to-nitrogen ratio of between 4 and 14, wherein more than 0% and up to 30% of the total nitrogen content is chemically bound as ammonia nitrogen, more than 0% and up to 20% of the total nitrogen content is chemically bound as easy-to-hydrolyse amide nitrogen and at least 50% of the total nitrogen content is chemically bound as difficult-to-hydrolyse amide nitrogen. The invention further relates to a method for producing an organic water-soluble fertiliser provided in solid form and to the use of such a water-soluble fertiliser.

IPC 8 full level  
**C05C 3/00** (2006.01); **C05F 11/02** (2006.01)

CPC (source: EP IL US)  
**C05C 3/005** (2013.01 - EP IL US); **C05F 11/02** (2013.01 - EP IL US); **C05G 5/10** (2020.02 - US)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021180688 A1 20210916**; AU 2021234072 A1 20220922; BR 112022017947 A2 20221018; CA 3170697 A1 20210916;  
CL 2022002443 A1 20230414; CN 115427376 A 20221202; EC SP22070629 A 20221130; EP 4118059 A1 20230118; IL 296052 A 20221001;  
MX 2022011127 A 20221013; US 2023120812 A1 20230420

DOCDB simple family (application)  
**EP 2021055866 W 20210309**; AU 2021234072 A 20210309; BR 112022017947 A 20210309; CA 3170697 A 20210309;  
CL 2022002443 A 20220907; CN 202180027940 A 20210309; EC DI202270629 A 20220908; EP 21709437 A 20210309;  
IL 29605222 A 20220830; MX 2022011127 A 20210309; US 202117910043 A 20210309