

Title (en)

METHOD AND DEVICE FOR THE DIGESTION OF STARCH

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFSCHLUSS VON STÄRKE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA DÉCOMPOSITION D'AMIDON

Publication

EP 3864055 A1 20210818 (DE)

Application

EP 19787171 A 20191008

Priority

- AT 3132018 A 20181008
- EP 2019077149 W 20191008

Abstract (en)

[origin: WO2020074471A1] The invention relates to a method for the digestion of starch (native starch or processed starch, such as cationic starch), in which method an aqueous slurry of the starch is treated with steam in a cooking vessel (4) and is thereby subjected to shearing forces, wherein, by introducing steam, the slurry containing starch is heated in the cooking vessel (4) to a temperature between 85°C and 110°C, and the step of digestion is carried out until the desired degree of digestion has been reached. In the digestion of native starch, the digestion can be carried out with the addition of an enzyme, for example, an amylase. The invention further relates to a cooking vessel (4) which can be used when carrying out the method for the digestion of starch.

IPC 8 full level

C08B 30/12 (2006.01); **C08B 30/16** (2006.01)

CPC (source: AT EP US)

B01F 23/511 (2022.01 - US); **B01F 25/54** (2022.01 - EP); **B01F 27/808** (2022.01 - AT EP US); **B01F 27/8111** (2022.01 - EP US); **C08B 30/12** (2013.01 - AT EP US); **C08B 30/16** (2013.01 - AT EP US); **C08L 3/02** (2013.01 - EP); **C12P 19/22** (2013.01 - US)

Citation (search report)

See references of WO 2020074471A1

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 2020074471 A1 20200416; AT 16656 U2 20200415; AT 16656 U3 20200715; BR 112021006012 A2 20210629; CA 3115723 A1 20200416; CA 3115723 C 20240618; CN 112805304 A 20210514; CN 112805304 B 20230124; EP 3864055 A1 20210818; JP 2022504514 A 20220113; JP 7457700 B2 20240328; US 2022010034 A1 20220113

DOCDB simple family (application)

EP 2019077149 W 20191008; AT 80482019 U 20181008; BR 112021006012 A 20191008; CA 3115723 A 20191008; CN 201980066207 A 20191008; EP 19787171 A 20191008; JP 2021519565 A 20191008; US 201917283905 A 20191008