

Title (en)
METHOD FOR THE REACTIVE EXTRUSION OF AN AMYLACEOUS MATERIAL IN THE PRESENCE OF A POLYPHOSPHATE SERVING AS A CROSS-LINKING AGENT, RESULTING PRODUCTS, AND USES THEREOF

Title (de)
VERFAHREN ZUR REAKTIVEN EXTRUSION EINES STÄRKEHALTIGEN MATERIALS UNTER VERWENDUNG EINES ALS VERNETZUNGSMITTEL GEEIGNETEN POLYPHOSPHATS, DARAUS RESULTIERENDE PRODUKTE UND VERWENDUNGEN DAVON

Title (fr)
PROCEDE D'EXTRUSION REACTIVE DE MATIERE AMYLACEE EN PRESENCE DE POLYPHOSPHATE COMME AGENT RETICULANT, PRODUITS OBTENUS ET LEURS UTILISATIONS

Publication
EP 2880061 A1 20150610 (FR)

Application
EP 13756622 A 20130730

Priority
• FR 1257436 A 20120731
• FR 2013051831 W 20130730

Abstract (en)
[origin: WO2014020274A1] The invention relates to a method for the reactive extrusion of an amylaceous substance in the presence of a polyphosphate serving as a cross-linking agent, to the resulting products, and to the uses thereof. The present invention relates to a method for the reactive extrusion of starch in the presence of a cross-linking agent which is a polyphosphate, in particular sodium trimetaphosphate, which behaves like an effective substitute for glyoxal. Said method makes it possible to manage the competition between the destructuring and cross-linking mechanisms of the amylaceous substance. The crystalline phase content of the cross-linked starches is thus controlled in accordance with the specific needs of the final use.

IPC 8 full level
C08B 31/00 (2006.01)

CPC (source: EP KR US)
A01N 25/12 (2013.01 - US); **A23L 29/212** (2016.07 - EP KR US); **A23P 30/20** (2016.07 - EP KR US); **A61K 8/0241** (2013.01 - EP US); **A61K 8/732** (2013.01 - EP US); **A61K 9/146** (2013.01 - EP KR US); **A61K 47/36** (2013.01 - EP KR US); **A61Q 19/00** (2013.01 - EP US); **C08B 31/003** (2013.01 - EP US); **C08B 31/006** (2013.01 - EP KR US); **C08J 3/12** (2013.01 - EP KR US); **C08J 3/24** (2013.01 - EP KR US); **C08L 3/02** (2013.01 - US); **C08L 3/04** (2013.01 - EP KR US); **C08L 101/00** (2013.01 - US); **C09D 103/04** (2013.01 - US); **D21H 17/24** (2013.01 - EP US); **D21H 17/28** (2013.01 - EP KR US); **D21H 19/54** (2013.01 - EP US); **A23V 2002/00** (2013.01 - US); **A61K 2800/10** (2013.01 - EP US); **A61K 2800/412** (2013.01 - EP US); **A61K 2800/654** (2013.01 - EP US); **C08J 2303/04** (2013.01 - EP KR US); **C08L 2205/18** (2013.01 - EP US)

Citation (search report)
See references of WO 2014020274A1

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 2014020274 A1 20140206; CA 2880170 A1 20140206; CN 104507971 A 20150408; EP 2880061 A1 20150610; FR 2994186 A1 20140207; FR 2994186 B1 20151002; IN 712DEN2015 A 20150626; JP 2015526557 A 20150910; KR 20150037915 A 20150408; US 2015299431 A1 20151022

DOCDB simple family (application)
FR 2013051831 W 20130730; CA 2880170 A 20130730; CN 201380040533 A 20130730; EP 13756622 A 20130730; FR 1257436 A 20120731; IN 712DEN2015 A 20150128; JP 2015524832 A 20130730; KR 20157002338 A 20130730; US 201314418529 A 20130730