Title (en)

MILLING PROCESS

Title (de)

FRÄSVERFAHREN

Title (fr)

PROCÉDÉ DE BROYAGE

Publication

EP 2925877 A4 20160608 (EN)

Application

EP 13859192 A 20131126

Priority

- CN 2012085347 W 20121127
- CN 2013087855 W 20131126

Abstract (en)

[origin: WO2014082564A1] Process for treating crop kernels, comprising the steps of: a)soaking kernels in water to produce soaked kernels; b)grinding the soaked kernels; c)treating the soaked kernels in the presence of an effective amount of a beta-xylosidase, wherein step c) is performed before, during or after step b).

IPC 8 full level

C12P 19/04 (2006.01); **C08B 30/02** (2006.01)

CPC (source: EP)

C08B 30/02 (2013.01); **C12P 19/14** (2013.01)

Citation (search report)

- [A] US 7488390 B2 20090210 - LANGHAUSER LEON H [US]
- [Y] AGGER ET AL: "Enzymatic xylose release from pretreated corn bran arabinoxylan: differential effects of deacetylation and deferuloylation on insoluble and soluble substrate fractions", JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol. 58, 2010, pages 6141 - 6148, XP002757058
- [Y] AGGER ET AL: "pH catalyzed pretreatment of corn bran for enhanced enzymatic arabinoxylan degradation", NEW BIOTECHNOLOGY, vol. 28, 2011, pages 125 - 135, XP028138182
- [Y] DORNEZ ET AL: "Grain-associated xylanases: occurrence, variability, and implications for cereal processing", TRENDS IN FOOD SCIENCE & TECHNOLOGY, vol. 20, 2009, pages 495 - 510, XP026766006
- [Y] SEMENOVA ET AL: "Isolation and properties of extracellular beta-xylosidases from fungi Aspergillus japonicus and Trichoderma reesei", BIOCHEMISTRY (MOSCOW), vol. 74, 2009, pages 1002 - 1008, XP002689192
- [Y] SÖRENSEN ET AL: "Synergistic enzyme mechanisms and effects of sequential enzyme additions on degradation of water insoluble wheat arabinoxylan", ENZYME AND MICROBIAL TECHNOLOGY, vol. 40, 2007, pages 908 - 918, XP005892515
- [Y] RAMÍREZ ET AL: "Enzymatic corn wet milling: engineering process and cost model", BIOTECHNOLOGY FOR BIOFUELS, vol. 2, 2009, pages 1 - 9, XP021052653
- [A] HAN ET AL: "A beta-xylosidase from cell wall of maize: purification, properties and its use in hydrolysis of plant cell wall", JOURNAL OF MOLECULAR CATALYSIS B: ENZYMATIC, vol. 63, 2010, pages 135 - 140, XP026929164
- [L] KIM ET AL: "Enzyme catalyzed disassembly of corn kernels", PRESENTATION SHEET, 2015, pages 1, XP002757059, Retrieved from the Internet <URL:http://www.purdue.edu/lorre/presentations/Kim%20CUTC%206.4.12.pdf> [retrieved on 20160426]
- See references of WO 2014082564A1

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

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