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- EPO Application number <B210>: **09774846.1**
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- Date of refusal of application <B235>:
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- Date of making available to the public by printing or similar process of a patent document on which grant has taken place on or before the said date <B450><date>: **2013.12.11**
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**Priority <B300>:**

<b>Number(s) assigned to priority application(s) &lt;B310&gt;:</b>	<b>Date(s) of filing of priority application(s) &lt;B320&gt;:</b>	<b>National property office allotting the priority application number or the organization allotting the regional priority application Number (WO for PCT) – country code &lt;B330&gt;:</b>
	2008.12.17	EP
	2008.12.17	US
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**Lapse <B472>:**

No lapse.

**Classification <B500>:**

<b>IPC (8) as one fixed length field of 50 positions &lt;B510EP&gt;&lt;text&gt;:</b>	<b>Edition of IPC (IPC version) &lt;B516&gt;:</b>
C12P 5/00 20060101AFI20100727BHEP	8
C12P 7/00 20060101ALI20100727BHEP	8
C12P 7/08 20060101ALI20100727BHEP	8
C12P 7/12 20060101ALI20100727BHEP	8

**Title <B540>:**

No title.

**Division <B620> or <B620EP>:**

No division.

**EPO Customer <B710>&<B720>&<B730>&<B740>:**

<b>Name &lt;snm&gt;:</b>	Borregaard AS	<b>EPO number of the customer &lt;iid&gt;:</b>	101313597
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**Opposition <B780>:**  
No opposition.

**Designated countries <B840>:**

<b>Kind of document &lt;B130&gt;:</b>	<b>Date of publication &lt;B140&gt;:</b>	<b>Country code &lt;B840&gt;&lt;ctry&gt;:</b>
B1	2015.08.05	NO

**PCT <B860>&<B870>:**

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<b>PCT Application number &lt;B861&gt;&lt;anum&gt;:</b>	EP2009009046	<b>Date of filing &lt;B861&gt;&lt;date&gt;:</b>	2009.12.16
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**Citations <B560>:**

<b>Kind of document &lt;B130&gt;:</b>	<b>Type &lt;B561&gt; or &lt;B562&gt;:</b>	<b>Text &lt;B561&gt;&lt;text&gt; or &lt;B562&gt;&lt;text&gt;:</b>
B1	PT citation	BR-A- 9 706 078
B1	PT citation	SE-C- 527 646
B1	PT citation	US-A1- 2009 298 149
B1	Non PT citation	Perkins (Chair): "AIChE - The 2008 Annual Meeting, Philadelphia, USA / Topical 4: Sustainable biorefineries (T4)", Google, 19 November 2008 (2008-11-19), pages 1-2, XP002616372, Retrieved from the Internet: URL:aiche.confex.com/aiche/2008/te m/S5427.HTM [retrieved on 2011-01-12]

B1	Non PT citation	Zhu: "AIChE - The 2008 Annual Meeting, Philadelphia, USA / Sporl for robust enzymatic hydrolysis of woody biomass", Google, 19 November 2008 (2008-11-19), page 1, XP002616373, Retrieved from the Internet: URL:aiche.confex.com/aiche/2008/te m/P128977.HTM [retrieved on 2011-01-12]
B1	Non PT citation	DEVERELL: "Ethanol production from wood hydrolysates using Pachysolen Tannophilus", BIOTECHNOLOGY LETTERS, vol. 5, 1983, pages 475-480, XP002616374,
B1	Non PT citation	HENDRIKS ET AL: "Pretreatments to enhance the digestibility of lignocellulosic biomass", BIORESOURCE TECHNOLOGY, vol. 100, 2 July 2008 (2008-07-02), pages 10-18, XP025407559,
B1	Non PT citation	SJÖDE ET AL: "The potential in bioethanol production from waste fiber sludges in pulp mill-based biorefineries", APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol. 136-140, 2007, pages 327-338, XP002528608,
B1	Non PT citation	SIMS ET AL: "From 1st- to 2nd-generation biofuel technologies", 2007, INTERNATIONAL ENERGY AGENCY, XP002528609, Retrieved from the Internet: URL:www.iea.org/textbase/papers/20 iofuel_Gen.pdf> * See section 4.1; only pages 44-54 are provided *

B1	Non PT citation	ASSARSSON ET AL: "Utvecklingsmöjligheter inom biokombinatet i Alfredshem", 2005, PROCESSUM TECHNOLOGY PARK, ÖRNSKÖLDSVIK, SWEDEN, XP002528610, Retrieved from the Internet: URL:www.processum.se/press/filer/B rapp_low.pdf> [retrieved on 2009-05-18] * See pages 15 and 16 *
B1	Non PT citation	KUHAD ET AL: "Hydrolytic potential of extracellular enzymes from a mutant strain of Fusarium oxysporum", BIOPROCESS ENGINEERING, vol. 20, 1999, pages 133-135, XP002528806,
B1	Non PT citation	BJÖRLING ET AL: "Evaluation of xylose-fermenting yeasts for ethanol production from spent sulfite liquor", ENZYME AND MICROBIAL TECHNOLOGY, vol. 11, 1989, pages 240-246, XP023791039,
B1	Non PT citation	ZHU ET AL: "Sulfite pretreatment (SPORL) for robust enzymatic saccharification of spruce and red pine", BIORESOURCE TECHNOLOGY, vol. 100, 31 December 2008 (2008-12-31), pages 2411-2418, XP002528808,
B1	Non PT citation	WANG ET AL: "Sulfite pretreatment to overcome recalcitrance of lignocellulose (SPORL) for robust enzymatic saccharification of hardwoods", BIOTECHNOLOGY

		PROGRESS, vol. 25, 23 June 2009 (2009-06-23), pages 1086-1093, XP002616375,
B1	Non PT citation	DATABASE WPI Thomson Scientific, London, GB; AN 2009-G46615 XP002528611, N.N.: "Preparing fermentable sugar, involves adding cellulose material to aqueous solution of sulfite and alkali compound, dehydrating cellulose product insoluble in sulfonated reaction solution and hydrolyzing product in cellulose enzyme", & CN 101 381 754 A (UNIV SOUTH CHINA SCI & ENG) 11 March 2009 (2009-03-11)
B1	Non PT citation	MORITZ ET AL: "Ethanol production from spent sulfite liquor fortified by hydrolysis of pulp mill primary clarifier sludge", APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol. 57/58, 1996, pages 689-698, XP003030531,
B1	Non PT citation	"Ethanol production from waste biomass: Enzymatic hydrolysis and fermentation of sulphite pulp mill primary clarifier sludge" In: MORITZ (Thesis): 1996, The University of British Columbia, Vancouver, XP003030532, pages 1-129,
B1	Non PT citation	XIN ET AL: "Acceleration of ethanol production from paper mill waste fiber by supplementation with beta-glucosidase", ENZYME AND MICROBIAL TECHNOLOGY, vol. 15, 1993, pages 62-65, XP023679703,

B1	Non PT citation	MAGDZINSKI: "Tembec temiscaming integrated biorefinery", PULP & PAPER CANADA, vol. 107, 2006, pages 44-46, XP003030530,
B1	Non PT citation	ZHU ET AL: "Specific surface to evaluate the efficiencies of milling and pretreatment of wood for enzymatic saccharification", CHEMICAL ENGINEERING SCIENCE, vol. 64, 2009, pages 474-485, XP025869017,
B1	Non PT citation	SHUAI ET AL: "Comparative study of SPORL and dilute-acid pretreatments of spruce for cellulosic ethanol production", BIORESOURCE TECHNOLOGY, vol. 101, 2010, pages 3106-3114, XP026870354,
B1	Non PT citation	ALVIRA ET AL: "Pretreatment technologies for an efficient bioethanol production process based on enzymatic hydrolysis", BIORESOURCE TECHNOLOGY, vol. 101, 2010, pages 4851-4861, XP026986219,
B1	Non PT citation	TOVEN ET AL: "Low temperature sulfonation of lignocellulose for effective biomass deconstruction and conversion" In: "Presented at the Nordic Wood and Biorefinery Conference", 2012, Helsinki, Finland pages 1-2,
B1	Non PT citation	TOVEN ET AL: "Low temperature sulfonation of lignocellulose for effective biomass deconstruction and conversion" In: "Poster at the Nordic Wood and Biorefinery

		Conference", 2012, Helsinki, Finland page 1,
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