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No	Ctr	Title	PubDate	Int.Class	Appl.No	Applicant	Inventor
1.	EE	200900073 - Katalüsaator ja meetod hüdroksükarboksüülhapete estrite katalüütiliseks hüdrogeenimiseks glükoolideks	15.06.2011	B01J 23/72 	200900073	NORDBIOCHEM OUE	DEMESHKINA MARGARITA PETROVNA
<p>Invention concerns polymerization catalysts and especially catalysts for polymerization and copolymerization of lactide. The invented catalysts are based on metal complexes and can be used in industrial processes of manufacture of biodegradable polymers and copolymers, which in turn can be used as goods in the food industry, medicine, pharmacology etc. The catalyst for polymerization and copolymerization of lactide, comprising metal compound, represented by the general formula (I) where M - metal, selected from group Zn(II), Mg(II), Ca(II), Sr(II), Ba(II), Al(III), Ga(III), Ge(II) R1 and R2 - hydrocarbon radicals or substituted hydrocarbon radicals; R3 - one or two of alkyl, aryl or heterocyclic radicals; Y - heteroatom or carbon; X - fragment of hydrocarbon.</p>							
2.	EP	2147001 - CATALYST AND METHOD FOR POLYMERIZATION AND COPOLYMERIZATION OF LACTIDE	27.01.2010	C07F 3/00 	08734573	NORDBIOCHEM OUE	FEDUSHKIN IGOR L
<p>The present invention relates to a continuous processes for producing of alkyl esters of lactic acid by reaction of lactic acid, oligomers or/and polymers and its alkyl esters with alcohol. The present method is characterized by that process is carried out in a solution of a target product at mole ratio alcohol/lactic acid, oligomers or/and polymers and its alkyl esters at an initial mix less 1.</p>							
3.	EP	2121561 - A CONTINUOUS PROCESS FOR THE PREPARATION OF ALKYL ESTERS OF LACTIC ACID AND ALIPHATIC ALCOHOLS	25.11.2009	C07C 67/08 	07702546	NORDBIOCHEM OUE	SHVETS VALERIY FEDOROVICH
<p>The present invention relates to a continuous processes for producing of alkyl esters of lactic acid by reaction of lactic acid, oligomers or/and polymers and its alkyl esters with alcohol. The present method is characterized by that process is carried out in a solution of a target product at mole ratio alcohol/lactic acid, oligomers or/and polymers and its alkyl esters at an initial mix less 1.</p>							
4.	EE	200800009 - Katalüsaator ja meetod hüdroksükarboksüülhapete estrite katalüütiliseks redutseerimiseks glükoolideks	15.10.2009	B01J 23/72 	200800009	NORDBIOCHEM OUE	SIMAKOVA IRINA LEONIDOVNA
5.	WO	WO/2009/103682 - THE CATALYST AND METHOD OF CATALYTIC REDUCTION OF ESTERS OF HYDROXYCARBOXYLIC ACID TO GLYCOLS	27.08.2009	B01J 23/72 	PCT/EP2009/051794	NORDBIOCHEM OÜ	SIMAKOVA, Irina Leonidovna
<p>The catalyst and method for catalytic reduction of esters of hydroxycarboxylic acids to glycols is disclosed. Esters of hydroxycarboxylic acids are contacted with hydrogen in gas phase at the presence of catalyst which contains mixture of copper and/or oxide of copper and/or hydroxide of copper and/or salt or mixture of salts of copper and of inorganic acids of the element IVb, Va and VIa groups of periodic system, and oxide or mixture of oxides of elements of IVb, Va and VIa groups of periodic system. The process of reduction of esters of hydroxycarboxylic acids to glycols is carried out at hydrogen pressures of less than 10 atm and temperature between 140 and 220°C.</p>							
6.	EE	200700053 - Kopolüaktiidid, meetod nende valmistamiseks ja neid sisaldav kompositsioon	15.06.2009	A61K 47/34 	200700053	NORDBIOCHEM OUE	TSEITLIN GENRIH MARKOVITS
7.	WO	WO/2009/053447 - COPOLYLACTIDES, A METHOD FOR THEIR PREPARATION, AND COMPOSITION CONTAINING THEM	30.04.2009	C08G 63/664 	PCT/EP2008/064404	NORDBIOCHEM OÜ	TSEITLIN, Genrih Markovich
<p>Copoly lactide having units of the formula -R1-O-CH(R2)-O-; where R1 is -CH2-CH2-, -CH2-CH2-O-CH2-CH2-, -(CH2)4-; and R2 is H, Alkyl, Allyl and units lactide with a L/D ratio 95/5 or more was have surprisingly found as novel crystalline copolymers. A lactide have L/D-ratio (D-enantiomer to L-enantiomer ratio of the lactide (mol/mol) of 65/35 to 95/5, preferably 70/30 to 90/10, most preferably about 85/15 can be used for same copoly lactide production. The present inventors have described methods for their preparation the copoly lactide and the same way as processing composition of the copolymers.</p>							
8.	EE	200700024 - Polümeersete jäätmete süsivesinikfraktsioonideks muundamise meetod	16.02.2009	B01J 23/06 	200700024	NORDBIOCHEM OUE	SHVETS VALERIY FEDOROVICH
9.	EE	200700037 - Meetod orgaaniliste hapete tootmiseks pideva kääritamisega	16.02.2009	C12P 7/40 	200700037	NORDBIOCHEM OUE	ILUSHKA IGOR VALERIANOVICH

10.	WO	WO/2009/006909 - PROCESS FOR PRODUCING ORGANIC ACIDS BY CONTINUOUS FERMENTATION	15.01.2009	C12P 7/48		PCT/EE2008/000018	NORDBIOCHEM OÜ	ILUSHKA, Igor Valerianovich
<p>According to present invention, the lactic acid and other organic acids can be produced in a simple and inexpensive manner, so as to eliminate the disadvantages of the prior processes discussed above. It has been surprisingly found, that if to create such conditions at which growth rate of cells is minimal but sufficient for replacement cells death, in this case decrease of the specific consumption of carbohydrates per unit of lactate is take place. The growth rate of cells can be reduced by increase of temperature and decrease of pH up to critical and supercritical values for each microorganism and as well by decrease of amounts nutrients fed into the fermentor and by use of additives bacteriostatics. Preferably, the optimal growth rate of cells reach by combination of temperature, pH, by amount of used nutrients and bacteriostatics fed into the fermentor.</p>								
11.	EE	200700020 - Biolagunevate polümeeride valmistamise meetod	15.12.2008	C08G 63/08		200700020	NORDBIOCHEM OUE	TSEITLIN GENRIH MARKOVITS
12.	WO	WO/2008/141655 - A PROCESS OF CONVERSION OF WASTE POLYMERIC MATERIALS INTO HYDROCARBON FRACTIONS	27.11.2008	C10G 1/10		PCT/EE2008/000012	NORDBIOCHEM OÜ	SHVETS, Valeriy Fedorovich
<p>The present invention relates to a method of conversion waste polymeric materials into hydrocarbon fractions, gasoline and diesel oil. According to the present invention the conversion of waste polymeric materials can be carried out at the presence of the catalyst which includes one or more of the elements of transition metals, where in, at least, one of the elements of the same metals has a various degree of oxidation.</p>								
13.	WO	WO/2008/131785 - METHOD FOR THE PRODUCTION OF THE BIODEGRADABLE POLYMERS	06.11.2008	C08G 63/08		PCT/EE2008/000010	NORDBIOCHEM OÜ	TSEILIN, Genrih Markovich
<p>The invention relates to a method for the production of a biodegradable polymer of cyclic esters in particular for medical applications. The method is carried out by bulk polymerization with the catalysts, wherein the catalysts are Lewis acids partially blocked by Lewis bases. According to the method the Lewis acids are compound of elements selected from the Group IIB, IIIB, IVA and IVB of the Periodic Table.</p>								
14.	WO	WO/2008/128548 - CATALYST AND METHOD FOR POLYMERIZATION AND COPOLYMERIZATION OF LACTIDE	30.10.2008	C07F 3/00		PCT/EE2008/000006	NORDBIOCHEM OÜ	FEDUSHKIN, Igor L.
<p>Invention concerns polymerization catalysts and especially catalysts for polymerization and copolymerization of lactide. The invented catalysts are based on metal complexes and can be used in industrial processes of manufacture of biodegradable polymers and copolymers, which in turn can be used as goods in the food industry, medicine, pharmacology etc. The catalyst for polymerization and copolymerization of lactide, comprising metal compound, represented by the general formula (I) where M - metal, selected from group Zn(II), Mg(II), Ca(II), Sr(II), Ba(II), Al(III), Ga(III), Ge(II) R1 and R2 - hydrocarbon radicals or substituted hydrocarbon radicals; R3 - one or two of alkyl, aryl or heterocyclic radicals; Y - heteroatom or carbon; X - fragment of hydrocarbon.</p>								
15.	WO	WO/2008/098580 - A PROCESS FOR THE PREPARATION OF ALKOCARBOXYLIC ACID ESTERS	21.08.2008	C07C 67/08		PCT/EE2007/000001	NORDBIOCHEM OÜ	SHVETS, Valeriy Fedorovich
<p>The present invention relates to a catalytic processes for producing of alkoxycarboxylic acid esters by reaction of hydroxycarboxylic acid and/or its esters with alcohol on a solid acid catalysts at temperatures ranging 100 - 400 °C and pressures 1-100 bar. The method is characterized by that a solid acid catalysts are phosphoric acid and/or its salts of metals I and II groups of Periodical Table on a solid porous material. According to the process alkoxycarboxylic acid esters can be produced in a mild condition and a high yield.</p>								
16.	WO	WO/2008/098581 - A CONTINUOUS PROCESS FOR THE PREPARATION OF ALKYL ESTERS OF LACTIC ACID AND ALIPHATIC ALCOHOLS	21.08.2008	C07C 67/08		PCT/EE2007/000002	NORDBIOCHEM OÜ	SHVETS, Valeriy Fedorovich
<p>The present invention relates to a continuous processes for producing of alkyl esters of lactic acid by reaction of lactic acid, oligomers or/and polymers and its alkyl esters with alcohol. The present method is characterized by that process is carried out in a solution of a target product at mole ratio alcohol/lactic acid, oligomers or/and polymers and its alkyl esters at an initial mix less 1.</p>								
17.	WO	WO/2008/049440 - PRODUCTION OF ORGANIC SOLVENTS, MONOMERS AND POLYMERS FROM FERMENTABLE CARBOHYDRATE MATERIALS	02.05.2008	C12P 7/18		PCT/EE2006/000008	OÜ NORDBIOCHEM	SHVETS, Valeriy
<p>The present invention relates to processes for producing organic solvents, different monomeric and polymeric chemical substances from fermentable carbohydrate materials (starch, cellulose, hemicellulose), particularly, a lactic acid and its esters, acrylic acid and its esters, propylene glycol, polypropylene, polylactate and polyacrylates, which comprises microbiological fermentation of carbohydrate materials up to a lactic acid and its salts, isolation of lactic acid and its salts, chemical conversion of lactic acid and its salts to organic alcohols aldehydes and ketones, acids, esters, glycols, polymers (i.e. polypropylenes, polyacrylates and polyacrylates). One or more the steps of the chemical conversion of a lactic acid and its salts carry out joint synthesis of two or more final products.</p>								
18.	EP	1397501 - METHOD OF PRODUCTION OF BIODEGRADABLE LACTIC ACID POLYMERS	17.03.2004	C12P 7/62		01967078	NORDBIOCHEM OUE	KOLBAKOV VAMBOLA
<p>The invention relates to the use of lactic acid and its esters produced upon microbiological fermentation of organic substances, particularly cereal starch, for producing biodegradable lactic acid polymers and use of the biodegradable polymer produced using such a technique. The areas of application of the invention include food processing and chemical technology. The fields of usage of the invention include the production of starch, phytoprotein, lactic acid and its derivatives, including its salts, esters and biodegradable polymer (PLA).</p>								

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