



## SEARCH REPORT

Application Number

LH 27  
LT 2021520

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	<p>WO 2018/005743 A1 (RHODIA OPERATIONS [FR]; LIU HONG [US] ET AL.) 4 January 2018 (2018-01-04)</p> <p>* paragraph [0007] *</p> <p>* paragraph [0008] *</p> <p>* paragraph [0010] *</p> <p>* paragraph [0013] *</p> <p>* paragraph [0016] *</p> <p>* paragraph [0019] *</p> <p>* paragraph [0023] - paragraph [0024] *</p> <p>* paragraph [0029] - paragraph [0030] *</p> <p>* paragraph [0074] *</p> <p>* paragraph [0091] - paragraph [0093] *</p> <p>* claims *</p> <p>-----</p>	1, 3-7	INV. C05G3/90
X	<p>US 2017/283340 A1 (PATIL NILESH [IN] ET AL) 5 October 2017 (2017-10-05)</p> <p>* paragraph [0068] *</p> <p>* paragraph [0099] *</p> <p>* paragraph [0114] *</p> <p>* paragraph [0138] *</p> <p>* claims *</p> <p>-----</p>	1-7	TECHNICAL FIELDS SEARCHED (IPC)
A	<p>WO 2008/000196 A1 (AGRA GROUP AS [CZ]; CIGLER PETR [CZ]) 3 January 2008 (2008-01-03)</p> <p>* claims *</p> <p>-----</p>	1-7	C05G
A	<p>US 2014/047883 A1 (GABRIELSON KURT D [US] ET AL) 20 February 2014 (2014-02-20)</p> <p>* paragraph [0017] *</p> <p>* paragraph [0016] *</p> <p>* paragraph [0023] *</p> <p>* claims *</p> <p>-----</p>	1-7	
1 The present search report has been drawn up for all claims			
The Hague		Date of completion of the search 20 January 2022	Examiner Rodriguez Fontao, M
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
<b>A</b>	<b>FR 2 925 826 A1 (AGROFINANCE INTERNATIONALE SOC [FR])</b> 3 July 2009 (2009-07-03) * claims *-----	1-7	
<b>A</b>	<b>WO 01/72665 A1 (COUNCIL SCIENT IND RES [IN]; PATRA DHARANI DHAR [IN] ET AL.)</b> 4 October 2001 (2001-10-04) * claims *-----	1-7	
1 The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
The Hague		Date of completion of the search <b>20 January 2022</b>	Examiner <b>Rodriguez Fontao, M</b>
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE SEARCH REPORT  
ON LITHUANIAN PATENT APPLICATION NO.**

LH 27  
LT 2021520

This annex lists the patent family members relating to the patent documents cited in the above-mentioned search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-01-2022

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2018005743	A1	04-01-2018	AU 2017290729 A1 BR 112018077258 A2 CA 3027617 A1 CN 109311779 A EP 3478647 A1 KR 20190015576 A US 2018002246 A1 US 2019100472 A1 US 2019270682 A1 US 2020148606 A1 US 2021253491 A1 WO 2018005743 A1	13-12-2018 02-04-2019 04-01-2018 05-02-2019 08-05-2019 13-02-2019 04-01-2018 04-04-2019 05-09-2019 14-05-2020 19-08-2021 04-01-2018
US 2017283340	A1	05-10-2017	BR 112018070327 A2 CN 109071372 A EP 3440036 A1 US 2017283340 A1 WO 2017176696 A1	29-01-2019 21-12-2018 13-02-2019 05-10-2017 12-10-2017
WO 2008000196	A1	03-01-2008	AT 526335 T AU 2007264228 A1 BR PI0713788 A2 CN 101479282 A CZ 301509 B6 DK 2032589 T3 EA 200802353 A1 EP 2032589 A1 ES 2373991 T3 NZ 573326 A PL 2032589 T3 PT 2032589 E WO 2008000196 A1	15-10-2011 03-01-2008 30-10-2012 08-07-2009 31-03-2010 09-01-2012 28-04-2009 11-03-2009 10-02-2012 30-09-2010 29-02-2012 11-01-2012 03-01-2008
US 2014047883	A1	20-02-2014	AR 092148 A1 BR 112015003231 A2 CA 2881709 A1 CN 104640826 A CN 110436998 A DK 2885261 T3 EP 2885261 A1 ES 2739640 T3 PL 2885261 T3 US 2014047883 A1 US 2016075613 A1 WO 2014028767 A1	25-03-2015 08-08-2017 20-02-2014 20-05-2015 12-11-2019 12-08-2019 24-06-2015 03-02-2020 31-10-2019 20-02-2014 17-03-2016 20-02-2014

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**20-01-2022**

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
<b>FR 2925826</b>	<b>A1</b>	<b>03-07-2009</b>	<b>AT</b>	<b>545622 T</b>		<b>15-03-2012</b>
			<b>BR</b>	<b>PI0821494 A2</b>		<b>16-06-2015</b>
			<b>CA</b>	<b>2710545 A1</b>		<b>09-07-2009</b>
			<b>EP</b>	<b>2225190 A2</b>		<b>08-09-2010</b>
			<b>ES</b>	<b>2382702 T3</b>		<b>12-06-2012</b>
			<b>FR</b>	<b>2925826 A1</b>		<b>03-07-2009</b>
			<b>PT</b>	<b>2225190 E</b>		<b>07-05-2012</b>
			<b>US</b>	<b>2011113842 A1</b>		<b>19-05-2011</b>
			<b>WO</b>	<b>2009083701 A2</b>		<b>09-07-2009</b>
<hr/>						
<b>WO 0172665</b>	<b>A1</b>	<b>04-10-2001</b>	<b>AU</b>	<b>779660 B2</b>		<b>03-02-2005</b>
			<b>CA</b>	<b>2338454 A1</b>		<b>28-09-2001</b>
			<b>CN</b>	<b>1354736 A</b>		<b>19-06-2002</b>
			<b>WO</b>	<b>0172665 A1</b>		<b>04-10-2001</b>
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## WRITTEN OPINION

File No. LH27	Filing date (day/month/year) 06.05.2021	Priority date (day/month/year)	Application No. LT2021520
International Patent Classification (IPC) INV. C05G3/90			
Applicant Akcine bendrove "ACHEMA"			

This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of the opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the application
- Box No. VIII Certain observations on the application

	Examiner Rodriguez Fontao, M
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## WRITTEN OPINION

Application number

LT2021520

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### Box No. I Basis of this opinion

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1. This opinion has been established on the basis of the latest set of claims filed before the start of the search.
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the application, this opinion has been established on the basis of:
  - a. type of material:
    - a sequence listing
    - table(s) related to the sequence listing
  - b. format of material:
    - on paper
    - in electronic form
  - c. time of filing/furnishing:
    - contained in the application as filed.
    - filed together with the application in electronic form.
    - furnished subsequently for the purposes of search.
3.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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### Box No. V Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

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#### 1. Statement

Novelty (N)	Yes: Claims	
	No: Claims	1-7
Inventive step (IS)	Yes: Claims	
	No: Claims	1-7
Industrial applicability (IA)	Yes: Claims	1-7
	No: Claims	

#### 2. Citations and explanations

**see separate sheet**

**WRITTEN OPINION**

Application number

LT2021520

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**Box No. VII Certain defects in the application**

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see separate sheet

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**Box No. VIII Certain observations on the application**

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see separate sheet

**Re Item V**

**Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1 Reference is made to the following documents:

D1 WO 2018/005743 A1 (RHODIA OPERATIONS [FR]; LIU HONG [US] ET AL.) 4 January 2018 (2018-01-04)

D2 US 2017/283340 A1 (PATIL NILESH [IN] ET AL) 5 October 2017 (2017-10-05)

2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of patentability because the subject-matter of claim 1 lacks novelty.

2.1 Document D1 discloses a preparation for use as an urease inhibitor comprising a solution of N-(n-butyl) thiophosphoric triamide (NBPT) dissolved in a solvent comprising a glycol ether and least one or more natural essential oils or their components or mixtures thereof (see claims 1,4, 27,28, paragraphs [0074], [0091]-[0093]). The subject-matter of claim 1 lacks novelty in view of this document.

2.2 The subject-matter of claim 1 also lacks novelty in view of document D2 (see (paragraph [0068]; paragraph [0099]; paragraph [0114]; paragraph [0138]; claims 1,2,7,9).

3 DEPENDENT CLAIMS 2-4

Dependent claims 2-4 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of patentability in respect of novelty and/or inventive step.

3.1 In this respect, the subject-matter of claims 3,4 is also known from D1 (see paragraph [0007]; paragraph [0010]; paragraph [0013]; paragraph [0016]; paragraph [0019]; paragraph [0023] - paragraph [0024]; paragraph [0029] - paragraph [0030]; paragraph [0074]; paragraph [0091] - paragraph [0093]; claims)). The subject-matter of these claims lacks therefore novelty in view of D1.

3.2 The subject-matter of claims 2-4 is also known from document D2 (see (paragraph [0068]; paragraph [0099]; paragraph [0114]; paragraph [0138]; claims 1,2,7,9).

**4 CLAIMS 5,6**

The present application does not meet the criteria of patentability because the subject-matter of claims 5,6 lacks novelty.

**4.1** Document D1 discloses a method for production of preparation for use as a urease inhibitor according to any one of claims 1 to 4, comprising dissolving the NBPT in a solvent, wherein the NBPT is dissolved in glycol ether in the first stage and in the second stage, at least one or more of selected natural essential oils or their components or mixtures thereof are added, and dissolving at room temperature (see paragraph [0007]; paragraph [0010]; paragraph [0013]; paragraph [0016]; paragraph [0019]; paragraph [0023] - paragraph [0024]; paragraph [0029] - paragraph [0030]; paragraph [0074]; paragraph [0091] - paragraph [0093]; claims). The subject-matter of claims 5 and 6 lacks novelty in view of this document.

**4.2** The subject-matter of claims 5,6 also lacks novelty in view of document D2 (see (paragraph [0068]; paragraph [0099]; paragraph [0114]; paragraph [0138]; claims 1,2,7,9).

**5 INDEPENDENT CLAIM 7**

The present application does not meet the criteria of patentability because the subject-matter of claim 7 lacks novelty.

**5.1** Document D1 discloses a urea fertilizer in which a preparation according to any one of claims 1 to 4 is used as urease inhibitor (see paragraph [0007]; paragraph [0008]; paragraph [0010], claims 1,4, 27,28, paragraphs [0074], [0091]-[0093]). The subject-matter of claim 7 lacks novelty in view of this document.

**5.2** The subject-matter of claim 7 also lacks novelty in view of document D2 (see (paragraph [0068]; paragraph [0099]; paragraph [0114]; paragraph [0138]; claims 1,2,7,9).

**Re Item VII**

**Certain defects in the international application**

**6** The relevant background art disclosed in documents D1-D is not mentioned in the description, nor are these documents identified therein.

**Re Item VIII**

**Certain observations on the international application**

**7** The subject matter of claim 6 is not considered to be clear

7.1 The expression "may be selected" used in claim 3 has no limiting effect on the scope of the claim. The features following this expression have therefore to be regarded as merely optional. Since there are no other features in the claim, the subject-matter of claim 3 lacks clarity.