

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 14793	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GE2019/050002	International filing date ( <i>day/month/year</i> ) 17 May 2019 (17-05-2019)	(Earliest) Priority Date ( <i>day/month/year</i> ) 22 May 2018 (22-05-2018)
Applicant  BERISHVILI, Zaur		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

☒

the international application in the language in which it was filed

☐

a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐

This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6**bis**(a)).

c. ☐

With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐

**Certain claims were found unsearchable** (See Box No. II)

3. ☐

**Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

☒

the text is approved as submitted by the applicant

☐

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒

the text is approved as submitted by the applicant

☐

the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒

as suggested by the applicant

☐

as selected by this Authority, because the applicant failed to suggest a figure

☐

as selected by this Authority, because this figure better characterizes the invention

b. ☐

none of the figures is to be published with the abstract

## INTERNATIONAL SEARCH REPORT

International application No

PCT/GE2019/050002

A. CLASSIFICATION OF SUBJECT MATTER  
 INV. C23C14/35 H01J37/34  
 ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 C23C H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, COMPENDEX, IBM-TDB, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2016/189337 A1 (BERISHVILI ZAUR [GE]) 1 December 2016 (2016-12-01) cited in the application	1,2
A	abstract; figures 1-4 page 1, lines 1-6 page 3, line 29 - page 9, line 21	3-12
A	US 2006/222780 A1 (GUREVICH SERGEY A [RU]) ET AL) 5 October 2006 (2006-10-05) abstract; figures 1,4 paragraphs [0002], [0005], [0006], [0014], [0020] - [0033], [0042] - [0056], [0059] - [0064] ----- -/--	1,3-8, 10-12



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

11 September 2019

Date of mailing of the international search report

18/10/2019

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040,  
 Fax: (+31-70) 340-3016

Authorized officer

Remy, Jérôme

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/GE2019/050002

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>Z. V. BERISHVILI ET AL: "Planar Magnetron Sputtering Device: A New Generation of Magnetron Sputtering Design and Technology", JOURNAL OF PHYSICAL SCIENCE AND APPLICATION, vol. 7, no. 5, 28 May 2017 (2017-05-28), XP055620208, ISSN: 2159-5348, DOI: 10.17265/2159-5348/2017.05.003 abstract; figures 1,2,6 the whole document</p> <p>-----</p>	1-12
A	<p>RU 1 816 288 C (Z.V. BERISHVILI, I.I GADAKHABADZE) 15 May 1993 (1993-05-15) the whole document</p> <p>-----</p>	1-12
A	<p>US 2011/203734 A1 (KOJI TSUNEKAWA [JP]) 25 August 2011 (2011-08-25) abstract; figures 1,2, paragraphs [0001], [0018], [0043] - [0062]</p> <p>-----</p>	9

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GE2019/050002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2016189337 A1	01-12-2016	GE P201606512 B WO 2016189337 A1	11-07-2016 01-12-2016
US 2006222780 A1	05-10-2006	AT 375836 T CA 2548501 A1 CN 1849186 A DE 602004009604 T2 EP 1689544 A1 RU 2242532 C1 US 2006222780 A1 WO 2005023460 A1	15-11-2007 17-03-2005 18-10-2006 24-07-2008 16-08-2006 20-12-2004 05-10-2006 17-03-2005
RU 1816288 C	15-05-1993		
US 2011203734 A1	25-08-2011	CN 102239276 A JP 4727764 B2 JP W02010064493 A1 KR 20110036850 A US 2011203734 A1 WO 2010064493 A1	09-11-2011 20-07-2011 10-05-2012 11-04-2011 25-08-2011 10-06-2010