

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 2016	FOR FURTHER ACTION		See item 4 below
International application No. PCT/RU2013/000070	International filing date (<i>day/month/year</i>) 01 February 2013 (01.02.2013)	Priority date (<i>day/month/year</i>) 17 April 2012 (17.04.2012)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant KAZANTSEV, Andrey Nikolaevich			

<p>1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.</p>																								
<p>3. This report contains indications relating to the following items:</p> <table> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).</p>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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	Date of issuance of this report 21 October 2014 (21.10.2014)
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PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year)	20.06.2013
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Applicant's or agent's file reference 2016	FOR FURTHER ACTION See paragraph 2 below
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International application No. PCT/RU2013/000070	International filing date (day/month/year) 01.02.2013	Priority date (day/month/year) 17.04.2012
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International Patent Classification (IPC) or both national classification and IPC
E02B9/00 (2006.01)

Applicant
KAZANTSEV, Andrey Nikolaevich

1. 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 opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) 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 international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/RU	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/RU2013/000070

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established 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)).
2. This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:
 - a. (means)
 - on paper
 - in electronic form
 - b. (time)
 - in the international application as filed
 - together with the international application in electronic form
 - subsequently to this Authority for the purposes of search
4. In addition, in the case that more than one version or copy of a sequence listing 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.
5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No. PCT/RU2013/000070
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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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1. Statement			
Novelty (N)	Claims	2-6	YES
	Claims	1	NO
Inventive step (IS)	Claims	2, 3, 5, 6	YES
	Claims	4	NO
Industrial applicability (IA)	Claims	1-6	YES
	Claims	_____	NO

2. Citations and explanations:	
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D1: Baibikov A. "Tekhnologii: energiya oblakov", gazeta Energetika i promyshlennost Rossii, No. 4, 2010, date of information being posted on the website: 21.06.2010, [retrieved 2013-05-28]. Retrieved from the Internet: <http://www.ingelec.ru/about/news/detail.php?ID=319>)

D2: RU 2250513 C1

D3: RU 94039446 A1

D4: RU 2398937 C1

D5: RU 2074610 C1

D6: CN 202417796 U

D1 discloses a hydropower station comprising a head water and a tail water, a water conduit and a turbo generator, wherein said station is provided with woven surfaces (in the known solution, these are identified as a surface of a cone-shaped receiver tank made from industrial aero fabric) (section entitled "Pilotnaya ustanovka" ["Pilot unit"]) (there may be several) (section entitled "Voda na

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

aerotkani" ["Water on aero fabric"]), said woven surfaces being designed so as to be capable of receiving atmospheric moisture (in the known solution, on the fabric of the receiver tank at a suitable incline of the walls) (section entitled "Voda na aerotkani" ["Water on aero fabric"]) and delivering said moisture to the head water (in the known solution: the apex of the cone, to which apex a tube made from aero fabric is attached) (section entitled "Pilotnaya ustanovka" ["Pilot unit"]).

D1 discloses the full combination of features of the invention according to claim 1, including the variant with woven surfaces, which makes it possible to conclude that this design variant of the invention according to claim 1 does not satisfy the criterion of novelty.

In relation to the other variants listed in claim 1, it is noted that it is known from D2 to provide mesh surfaces for reducing the wind load on a structure, and that it is known from D3 to use mesh surfaces for condensing moisture. It is known from D4 to use film surfaces for condensing atmospheric moisture thereon.

It is known from D5 to provide surfaces (in the known solution: screen 6) with a drainage system for collecting atmospheric moisture, designed in the form of conduits (reference signs 17 and 18) and piped channels (reference sign 19) which transfer the collected water to the head water (in the known solution: a water tank). It is obvious to a person skilled in the art to position the head water (water tank) close to the surfaces.

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

Therefore, dependent claim 4 does not satisfy the criterion of inventive step.

The prior art shows that the technical solutions presented in dependent claims 2, 3, 5 and 6 are neither known nor obvious from said prior art as a means of improving operating features, and as a result, the invention according to these claims satisfies the criterion of inventive step.

The invention satisfies the criterion of industrial applicability.