

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 12-176881- -00004-0000

Fecha: 2013-08-23 11:16:09 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 538 PETICION Folios: 6

Señor Director
DIRECCION DE NUEVAS CREACIONES
Superintendencia de Industria y Comercio
E. S. D.

Trámite : 011
Evento : 378
Actuación : 538

Referencia : Expediente No. 12.176.881
Asunto : Solicitud de Patente para **UN GENERADOR DE VAPOR SITUADO EN EL FONDO DE LA PERFORACIÓN Y MÉTODO DE USO**
Solicitante : **WORLD ENERGY SYSTEMS INCORPORATED**
Clase : E21B 036/002, E21B 043/024
Publicada en : La Gaceta No.663 del 01 de marzo de 2013
Fecha de Solicitud : 08 de Octubre de 2012

SOLICITUD EXAMEN DE PATENTABILIDAD

1. Yo, Luz Clemencia de PAEZ, identificada como aparece al pie de mi firma, actuando como apoderada de la sociedad **WORLD ENERGY SYSTEMS INCORPORATED**, atentamente solicito se efectúe el examen de patentabilidad de la solicitud en referencia presentada de acuerdo con las reglas del Capítulo I del PCT y según lo establecido en el artículo 44 de la Decisión 486 de la Comisión de la Comunidad Andina.

Para tal efecto presento junto con este escrito el recibo por valor de \$505.000.00 que corresponde a la tasa legal fijada según lo dispuesto en la Resolución No. 173 del 11 de enero de 2013.

2. Adicionalmente, presento junto con este memorial copia del Informe Preliminar Internacional sobre patentabilidad expedido en el trámite de la solicitud internacional PCT/US2011/027398, correspondiente a la presente fase nacional.

Por lo anterior, comedidamente solicito se prosiga con el trámite de este asunto.

Señor Director,

Luz Clemencia de PAEZ
LUZ CLEMENCIA DE PAEZ
C.C. 35.456.344 de Usaquén
T.P.A. No. 23.555

COLO
COLO-19681-0841-001-7
VCB\ICT\ID-249613\WPC19681
No. M-2013-249613\VCB

"EXCELENCIA LEGAL EN UN MUNDO SIN FRONTERAS"

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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 WESI0014PCT	FOR FURTHER ACTION		See item 4 below
International application No. PCT/US2011/027398	International filing date (day/month/year) 07 March 2011 (07.03.2011)	Priority date (day/month/year) 08 March 2010 (08.03.2010)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant WORLD ENERGY SYSTEMS INCORPORATED			

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).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

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.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	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 Article 35(2) 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

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).

	Date of issuance of this report 11 September 2012 (11.09.2012)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt01.pct@wipo.int

PCT/US2011/027398

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: PATTERSON B. TODD PATTERSON & SHERIDAN, L.L.P. 3040 POST OAK BLVD., SUITE 1500 HOUSTON TX 77056-6582 USA

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year) 14 SEPTEMBER 2011 (14.09.2011)	
Applicant's or agent's file reference WESI0014PCT	FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/US2011/027398	International filing date (day/month/year) 07 MARCH 2011 (07.03.2011)
Priority date(day/month/year) 08 MARCH 2010 (08.03.2010)	
International Patent Classification (IPC) or both national classification and IPC <i>E21B 43/24(2006.01)i, E21B 36/02(2006.01)i</i>	
Applicant WORLD ENERGY SYSTEMS INCORPORATED et al	

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/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Cheongsu-ro, Seo-gu, Daejeon 302- 701, Republic of Korea Facsimile No. 82-42-472-7140	Date of completion of this opinion 09 SEPTEMBER 2011 (09.09.2011)	Authorized officer BAHNG, Seung Hoon Telephone No.82-42-481-8444 
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2011/027398

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 43*bis*.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. a sequence listing filed or furnished
 - ☐ on paper
 - ☐ in electronic form
 - b. time of filing or furnishing
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in electronic form.
 - ☐ furnished 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/US2011/027398

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

1. Statement				
Novelty (N)	Claims	1-20		YES
	Claims	NONE		NO
Inventive step (IS)	Claims	1-20		YES
	Claims	NONE		NO
Industrial applicability (IA)	Claims	1-20		YES
	Claims	NONE		NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 04861263 A (SCHIRMER; ROBERT M.) 29 August 1989
D2: US 04385661 A (FOX; RONALD L.) 31 May 1983
D3: US 04411618 A (DONALDSON; A. BURL et al.) 25 October 1983
D4: US 04648835 A (EISENHAWER; STEPHEN et al.) 10 March 1987

1. Novelty and Inventive Step

1.1 Independent Claims 1, 13
The subject matter of claims 1 and 13 differ from these prior art documents in a sudden expansion region(106). And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claims 1 and 13 meet the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

1.2 Dependent Claims 2-12, 14-20
Claims 2-12 and 14-20 respectively depend on claims 1, 13 and consequently they are also considered to be novel and to involve an inventive step under PCT Article 33(2) and (3).

2. Industrial Applicability
Claims 1-20 are industrially applicable under PCT Article 33(4).

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
NIT : 800.176.089-2
- / -

 Industria y Comercio SUPERINTENDENCIA	RECIBO DE CAJA	No. 13 - 0082854
		Bogotá D.C., Agosto 20 de 2013 - 16:40:59

RECIBIDO DE : CAVELIER ABOGADOS	NI 860.041.367
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*** Soporte del Pago ***					
TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	VR. PAGO
CONSIGNACION	BANCO DE BOGOTA	062754387	195891290	20/08/2013	17.201.000.00

*** Conceptos Pagados ***			
CANT.	RENTISTICO	CONCEPTO	
1	50005-01-01 SOLICITUDES	114 PTC CAP-II EXAMEN DE PATENTIBILIDAD DE INVENION	
			Vr. UNDITARIO Vr. CONCEPTO
			505.000.00 505.000.00
			\$505.000.00
			=====

SON: **QUINIENTOS CINCO MIL PESOS MONEDA CORRIENTE**

Responsable: _____

Recibo de Caja Aplicado al Expediente No. _____

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Sede Centro: Carrera 13 No. 27 - 00 Pisos 3,4,5 y 10 Bogotá, D.C.- Colombia

Web: www.sic.gov.co e-mai: info@sic.gov.co Conmutador: (571) 5870000 Fax: (571) 5870284 Linea: 018000-910165 Call Center: (571) 6513240