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Departamento: Ingeniería Eléctrica y Energética
 Área: Máquinas y Motores Térmicos

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Parametric pendulum based wave energy converter
Danil Yurchenko^{a,*}, Panagiotis Alevras^b

Abstract

The paper investigates the dynamics of a novel wave energy converter based on the parametrically excited pendulum. The herein developed concept of the parametric pendulum allows reducing the influence of the gravity force thereby significantly improving the device performance at a regular sea state, which could not be achieved in the earlier proposed original point-absorber design. The suggested design of a wave energy converter achieves a dominant rotational motion without any additional mechanisms, like a gearbox, or any active control involvement. Presented numerical results of deterministic and stochastic modeling clearly reflect the advantage of the proposed design. A set of experimental results confirms the numerical findings and validates the new design of a parametric pendulum based wave energy converter. Power harvesting potential of the novel device is also presented.

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Parametric pendulum based wave energy converter
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ABSTRACT

The paper investigates the dynamics of a novel wave energy converter based on the parametrically excited pendulum. The herein developed concept of the parametric pendulum allows reducing the influence of the gravity force thereby significantly improving the device performance at a regular sea state, which could not be achieved in the earlier proposed original point-absorber design. The suggested design of a wave energy converter achieves a dominant rotational motion without any additional mechanisms, like a gearbox, or any active control involvement. Presented numerical results of deterministic and stochastic modeling clearly reflect the advantage of the proposed design. A set of experimental results confirms the numerical findings and validates the new design of a parametric pendulum based wave energy converter. Power harvesting potential of the novel device is also presented.

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1. Introduction

Energy harvesting has been attracting much attention in recent years, which is reflected in a great number of publications. In some areas, like wind energy, there have been significant advances made allowing to pass from a concept up to a commercialization stage, implementing some novel ideas in practice. Wave energy is another promising area the development of which however has been progressing slower than expected due to a number of reasons. Over one hundred fifty various concepts of Wave Energy Converters (WECs) exist and new ones keep appearing quite regularly. Some of the ideas went through the commercialization stage and have been built and deployed, for instance Pelamis, Oyster, OWC, etc. [1]. Despite these developments, the cost of wave energy remains significantly high, almost ten times greater than that of coal and almost twice the cost of offshore wind energy [2]. The Carbon Trust identified three major directions where cost reduction can be achieved: device components, operation and maintenance as well as next generation concepts [2]. This becomes especially important in a view of recent bankruptcies of two major players in this sector - Pelamis and Oyster. Thus, it becomes obvious that the race for a new generation of more efficient, inexpensive and robust WECs is still on.

Relatively recently, a novel wave energy power take-off concept has been first proposed in [3]. Its main idea was based on the properties of a parametrically excited pendulum. It is well known that if a pendulum's suspension point is excited harmonically in the vertical direction with a certain frequency, rotational response of the pendulum is possible. The dynamics of such a system can be described by the following nonlinear equation:

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- Iglesias, G. (16) >
- Henriques, J.C.C. (12) >
- Isberg, J. (12) >
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 Guo, H. (15)
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 Hu, C. (11)
 Wang, Z.L. (11)
 Zi, Y. (11)
 Li, Z. (9)
 Jiang, T. (7)
 Yeh, M.H. (7)
 Cao, X. (6)

Subject area
 Materials Science (87)
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<input type="checkbox"/> Achieving ultrahigh triboelectric charge density for efficient energy harvesting	Wang, J., Wu, C., Dai, Y., (...), Zhang, T., Wang, Z.L.	2017 Nature Communications	1
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<input type="checkbox"/> A low-frequency piezoelectric-electromagnetic-triboelectric hybrid broadband vibration energy harvester	He, X., Wen, Q., Sun, Y., Wen, Z.	2017 Nano Energy	0
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<input type="checkbox"/> Self-powered triboelectric nanogenerator buoy ball for applications ranging from environment monitoring to water wave energy farm	Shi, Q., Wang, H., Wu, H., Lee, C.	2017 Nano Energy	0
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<input type="checkbox"/> Humidity-resisting triboelectric nanogenerator for high performance biomechanical energy harvesting	Shen, J., Li, Z., Yu, J., Ding, B.	2017 Nano Energy	0
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<input type="checkbox"/> Triboelectric Nanogenerator Enabled Body Sensor Network for Self-Powered Human Heart-Rate Monitoring	Lin, Z., Chen, J., Li, X., (...), Yang, J., Wang, Z.L.	2017 ACS Nano	0
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 - 2012 (562)
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 - Holland, F.A. (82)
 - Anon. (68)
 - Chen, L. (67)
 - Yao, Y. (63)
 - Sun, F. (61)
- Subject Area
 - Engineering (5,794)
 - Energy (2,946)
 - Chemical Engineering (1,104)
 - Environmental Science (632)

1	Current status of ground source heat pumps and underground thermal energy storage in Europe	Sanner, B., Karytsas, C., Mendrinos, D., Rybach, L.	2003	Geothermics	221
2	Ground-source heat pumps systems and applications	Mustafa Omer, A.	2008	Renewable and Sustainable Energy Reviews	214
3	Vertical-borehole ground-coupled heat pumps: A review of models and systems	Yang, H., Cui, P., Fang, Z.	2010	Applied Energy	176
4	Advances in heat pump systems: A review	Chua, K.J., Chou, S.K., Yang, W.M.	2010	Applied Energy	163
5	CO ₂ -heat pump water heater: Characteristics, system design and experimental results	Neksá, P., Rekestad, H., Zakeri, G.R., Schieffoe, P.A.	1998	International Journal of Refrigeration	161
6	A review of magnetic refrigerator and heat pump prototypes built before the year 2010	Yu, B., Liu, M., Egolf, P.W., Kitanovski, A.	2010	International Journal of Refrigeration	145 Cited by

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- Chen, L.
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6	A review of magnetic refrigerator and heat pump prototypes built before the year 2010	Yu, B., Liu, M., Egolf, P.W., Kitanovski, A.	2010	International Journal of Refrigeration	145
7	Energy and exergy analysis of a ground source (geothermal) heat pump system	Hepbasli, A., Akdemir, O.	2004	Energy Conversion and Management	145
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10	A review of chemical heat pump technology and applications	Wongsuwan, W., Kumar, S., Neveu, P., Meunier, F.	2001	Applied Thermal Engineering	128
	Experimental study of a closed loop vertical ground source heat	Hepbasli, A., Akdemir, O.	2003	Energy Conversion and	120

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<input type="checkbox"/> Estimation de l'impact de la contre-réaction et de la recirculation dans les systèmes de pompe à chaleur sur nappe souterraine en boucle ouverte (GWHP): Un outil de conceptuel complémentaire [Assessing the impact of thermal feedback and recycling in open-loop groundwater heat pump (GWHP) systems: A complementary design tool]	Milnes, E., Perrochet, P.	2013	Hydrogeology Journal	6
<input type="checkbox"/> Investigación sobre bombas de calor en México operando con energía geotérmica y calor de desecho [Research on heat pumps in Mexico operating with geothermal energy and waste heat]	García-Gutiérrez, A., Barragán-Reyes, R.M., Arellano-Gómez, V.	2008	Geotermia	0
<input type="checkbox"/> Integración de la bomba de calor en superestructuras de almacenamiento térmico [Integration of the heat pump in thermal storage superstructures]	Peredo, J., Renedo, C.J., Ortiz, A.	2007	Ingeniería Química 39 (447), pp. 136-149	1 Cited by
<input type="checkbox"/> Bomba de calor para purificación de salmuera geotérmica [Heat pump for purification of geothermal brines]	Santoyo-Gutiérrez, S., Barragán-Reyes, R.M., Holland, F.A.	2007	Geotermia	1
<input type="checkbox"/> Validación Experimental de una Herramienta de Simulación de Bombas de Calor [Experimental validation of a heat pump simulation tool]	Linares, J.I., Moratilla, B.Y.	2005	Informacion Tecnologica	0
<input type="checkbox"/> Coeficiente de operación (COP) del ciclo de carnot de bomba de calor endorreversible [Coefficient of performance of an endoreversible carnot heat pump cycle]	Quinto-Diez, P., Jiménez-Bernal, J.A., Gutiérrez-Torres, C.D., Gutiérrez...	2004	Acta Cientifica Venezolana	0

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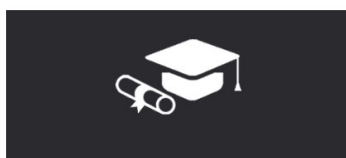
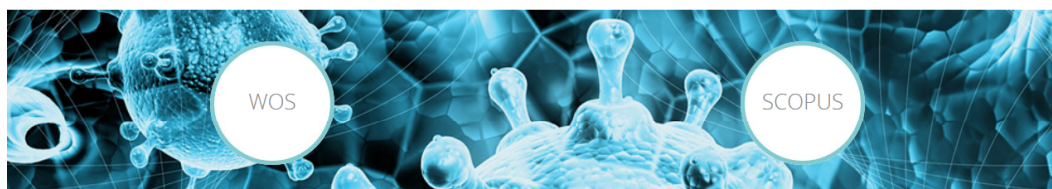
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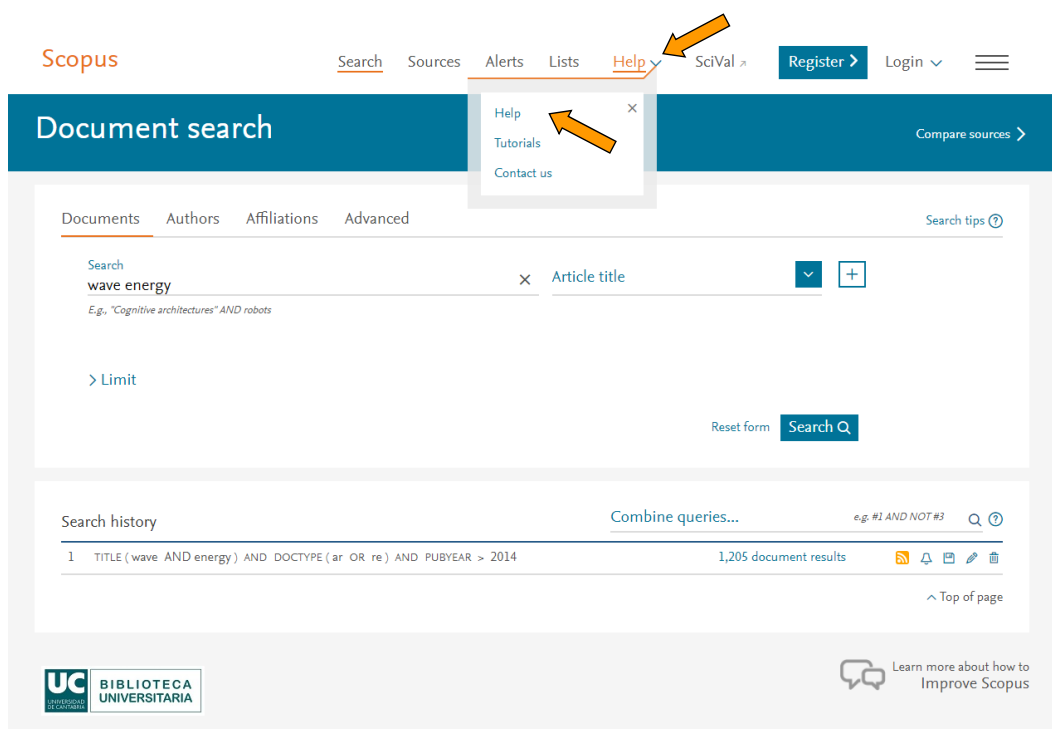
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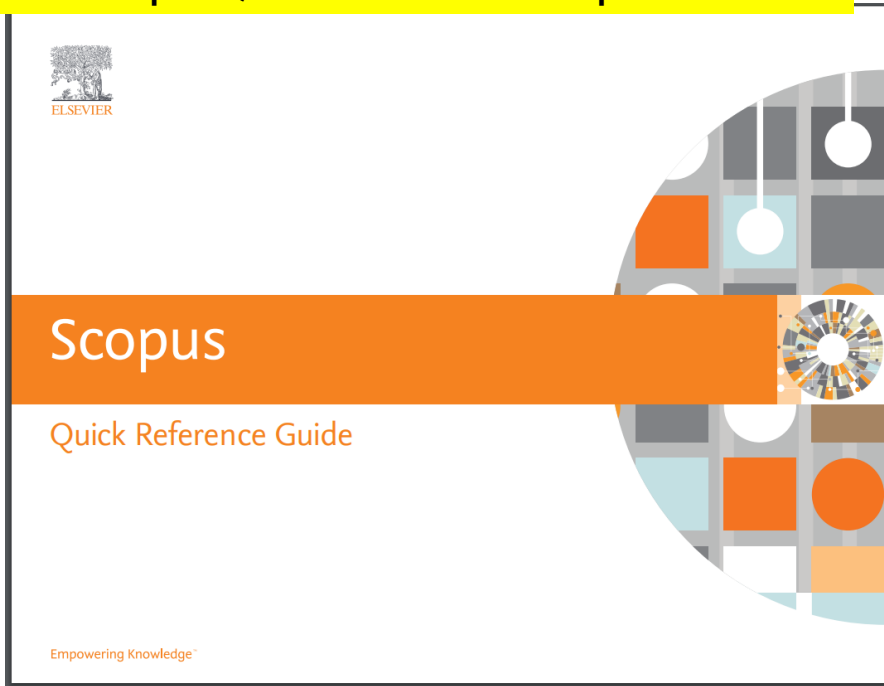
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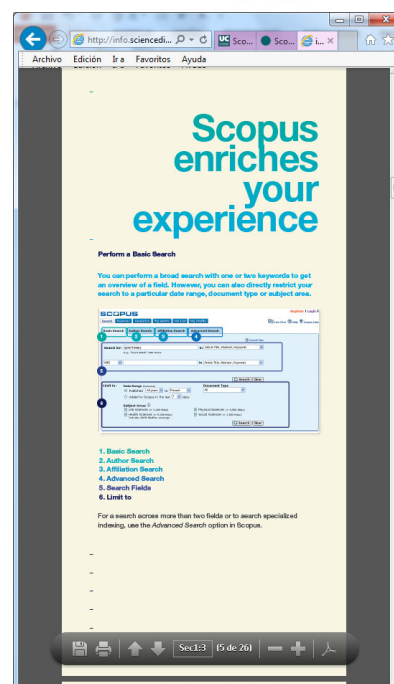
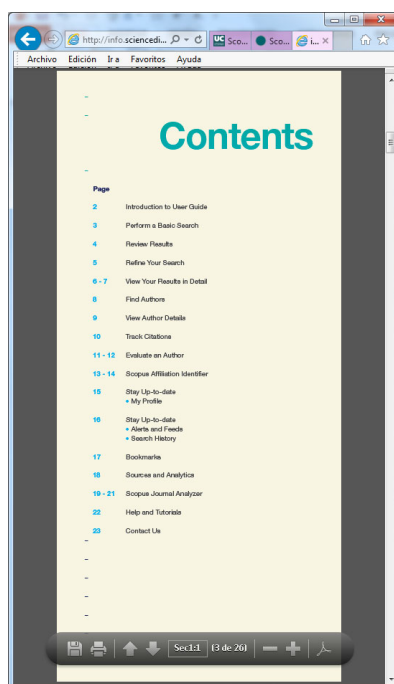
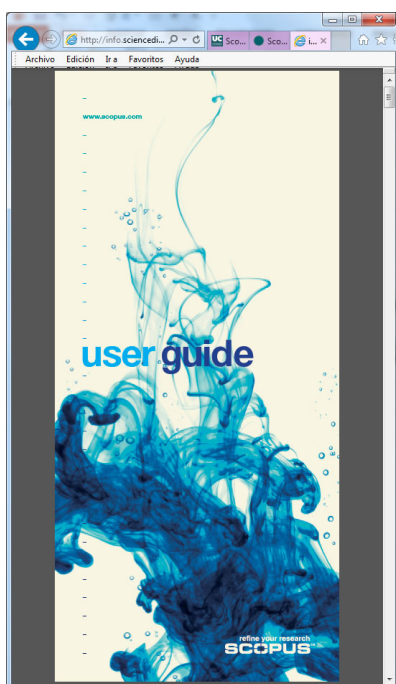
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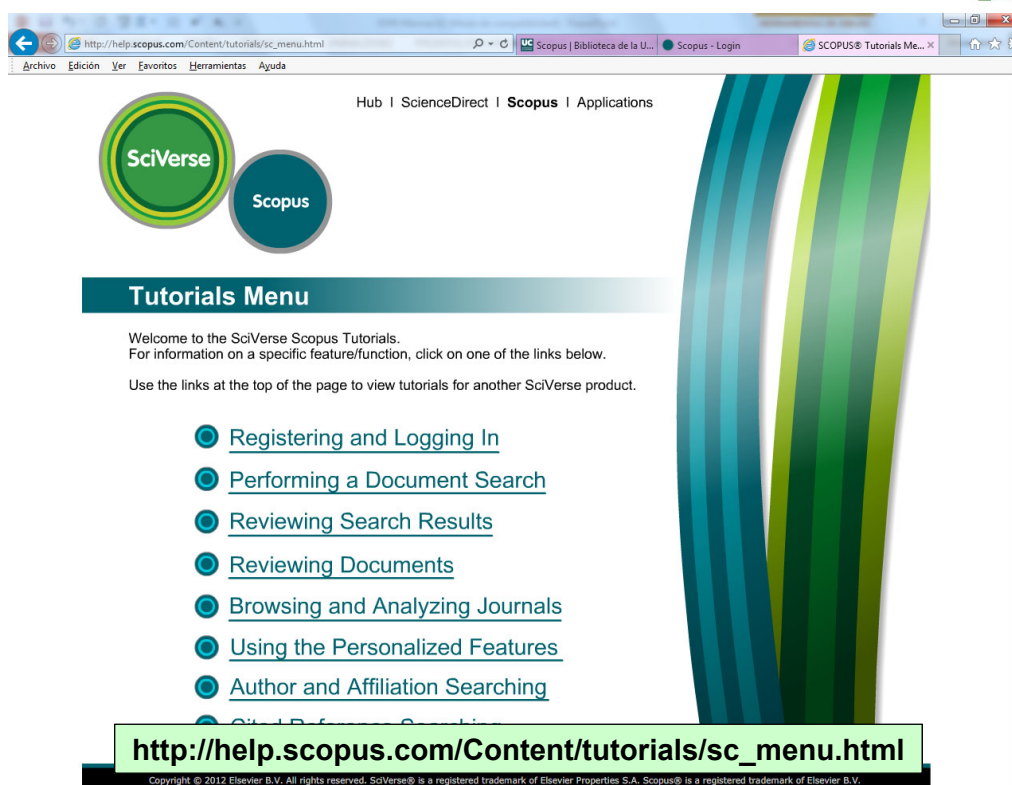
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- Improved bulk density of bamboo pellets as biomass for energy production Original Research Article
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- Improved bulk density of bamboo pellets as biomass for energy production Original Research Article
Pages 1-7
Zhijia Liu, Bingbing Mi, Zehui Jiang, Benhua Fei, Zhiyong Cai, Xing'e Liu
[Abstract](#) | [Close research highlights](#) | [PDF \(915 K\)](#)

Highlights

- Bulk density of bamboo pellet is not qualified.
- Bulk density is improved when adding 40% pine particles to bamboo particles.
- Fine content decreased from premium grade to utility grade.
- Interaction of bamboo and pine particles was observed during pelleting.
- The interaction has more significantly affect physical properties than combustion properties.

- Performance analysis of a horizontal axis 3-bladed Savonius type wave turbine in an experimental wave flume (EWF) Original Research Article
Pages 8-25
Mustafa Tutar, Inaki Veci
[Abstract](#) | [Close research highlights](#) | [PDF \(6450 K\)](#)

Highlights

- Fabricated Savonius rotors are utilized in intermediate-to-shallow water depths.

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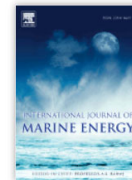
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Número de publicación: **2 597 127**
Número de solicitud: 201500522
Int. Cl.:
F03B 13/18 (2006.01)

SOLICITUD DE PATENTE A1

Fecha de presentación: **15.07.2015**
Fecha de publicación de la solicitud: **16.01.2017**

Solicitantes:
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30310 CARTAGENA (Murcia) ES

Inventores:
LOZANO PEREZ, Antonio

Agente/Representante:
JIMENEZ BRINQUIS, Rubén

Título: **Dispositivo para aprovechamiento de energía undimotriz**

Resumen:
Dispositivo para aprovechamiento de energía undimotriz.
Dispositivo destinado a aprovechar la energía obtenida del movimiento de las olas y de la propia flotabilidad del dispositivo, de manera que pueda almacenar dicha energía mediante la compresión de un líquido a alta presión y transformarla posteriormente en energía eléctrica. Se compone de una base fija que se ancla al suelo la cual está formada por un bastidor (9) sobre el que se disponen unos ejes de giro (34) que actuarán de punto de apoyo para que basculen dos brazos, uno largo (3) y otro corto (35); unos émbolos (4) anclados al bastidor (9) y unidos en su extremo al brazo corto (35); una viga perpendicular (2) conectada al extremo del brazo largo (3); una boya (1) dispuesta en el extremo inferior de la viga perpendicular (2) que se une a ella mediante una articulación (22) dispuesta en el punto más bajo de la boya (1).

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1	Networks of triboelectric nanogenerators for harvesting water wave energy: A potential approach toward blue energy	Chen, J., Yang, J., Li, Z., (...), Niu, S., Wang, Z.L.	2015	ACS Nano 9(3), pp. 3324-3331	103
2	A review of combined wave and offshore wind energy	Pérez-Collazo, C., Greaves, D., Iglesias, G.	2015	Renewable and Sustainable Energy Reviews 42, pp. 141-153	78
3	<u>The economics of wave energy: A review</u>	Astariz, S., Iglesias, G.	2015	Renewable and Sustainable Energy Reviews 45, pp. 397-408	54
4	Oscillating-water-column wave energy	Falcão, A.F.O.,	2016	Renewable Energy	48

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Year: 2018 (7), 2017 (391), 2016 (421), 2015 (386)

Author name: Ringwood, J.V. (20), Iglesias, G. (16), Henriques, J.C.C. (12), Isberg, I. (12)

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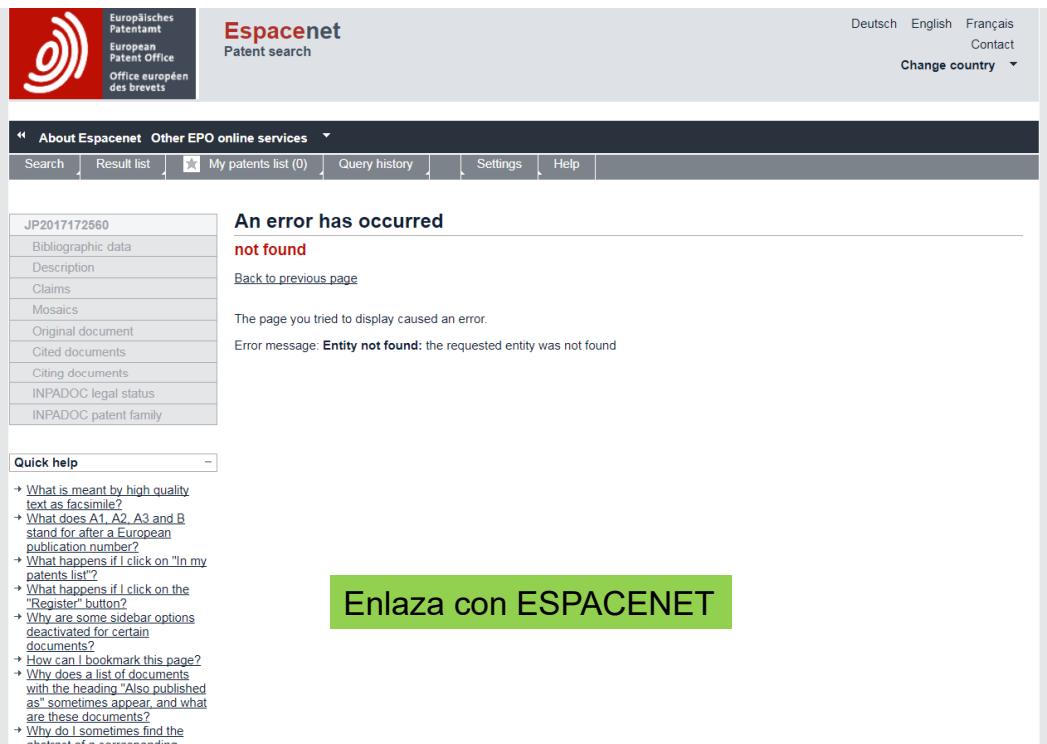
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	Patent name	Inventor(s)/applicant(s)	Year	Patent office	Patent number
1	A flutter type energy utilization and a flutter type power generator [フラッタ式エネルギー利用方法及びフラッタ式発電装置]	園分 健太郎; 藤原 敬文 (国立研究開発法人 海上・港湾・航空技術研究所)	2017	Patent Abstracts of Japan	JP2017172560
2	The therapeutic shock waves are generated for the device and its use [治療用衝撃波を発生させるための装置およびその用途]	クリストファー・シー・カベリ (ボード・オブ・リージェンツ, ザ・ユニバーシティ・オブ・テキサス・システム)	2017	Patent Abstracts of Japan	JP2017172050
3	Wave power generating device and its control method [波力発電装置とその制御方法]	中野 訓雄; 川口 隆 (三井造船株式会社)	2017	Patent Abstracts of Japan	JP2017172480

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