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721398



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**APPLICATION NUMBER: 61/999,582**

**FILING DATE: August 01, 2014**

**RELATED PCT APPLICATION NUMBER: PCT/US15/42353**

**THE COUNTRY CODE AND NUMBER OF YOUR PRIORITY APPLICATION, TO BE USED FOR FILING ABROAD UNDER THE PARIS CONVENTION, IS US61/999,582**



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**PROVISIONAL APPLICATION FOR PATENT COVER SHEET - Page 1 of 2**

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. \_\_\_\_\_

INVENTOR(S)		
Given Name (first and middle (if any))	Family Name or Surname	Residence (City and either State or Foreign Country)
ANDREA	ROSSI	1331 LINCOLN RD-601 MIAMI BEACH, FL 33139 USA
Additional inventors are being named on the _____ separately numbered sheets attached hereto.		
<b>TITLE OF THE INVENTION (500 characters max):</b>		
ADDITIVE FOR ESOTHERMIC REACTIONS WITH HYDRIDES HYDROGEN, DELTERIUM AND RICKEL, IN PARTICULAR LiAlH <sub>4</sub>		
Direct all correspondence to: <b>CORRESPONDENCE ADDRESS</b>		
<input type="checkbox"/> The address corresponding to Customer Number: _____		
OR		
<input checked="" type="checkbox"/> Firm or Individual Name <b>ANDREA ROSSI</b>		
Address <b>1331 LINCOLN ROAD, APT 601</b>		
City <b>MIAMI BEACH</b>	State <b>FLORIDA</b>	Zip <b>33139</b>
Country <b>USA</b>	Telephone <b>305-504 4067</b>	Email <b>604.333PLIBEND.IT</b>
<b>ENCLOSED APPLICATION PARTS (check all that apply)</b>		
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76.		
<input type="checkbox"/> Drawing(s) Number of Sheets _____		
<input type="checkbox"/> Specification (e.g., description of the invention) Number of Pages <b>2</b>		
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<input checked="" type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27.		
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This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 10 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

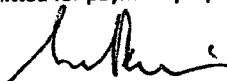
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Yes, the invention was made by an agency of the U.S. Government. The U.S. Government agency name is: \_\_\_\_\_

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SIGNATURE  DATE 08-02-2014

TYPED OR PRINTED NAME ANDREA ROSSI REGISTRATION NO. \_\_\_\_\_  
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## Provisional Patent Application

### --- Inventor Info ---

**First Name:** Andrea

**Last Name:** Rossi

**Middle Initial:** -

**Street:** 1331 Lincoln Road Apt 601

**City:** Miami Beach

**State:** FLORIDA (USA)

**ZIP:** 33139

**Country Residence:** United States of America

**Country Citizenship:** Italy

**Email:** info@leonardocorp1996.com

**Phone:** 786 985 8982 **Fax:** 786 453 2914

### --- Other Inventors ---

### Title of Invention:

Rossi Effect and apparatus to produce heat with high efficiency

### Objectives:

This invention solves the problem to produce energy with the highest possible efficiency. The problem is solved by making powder of nickel react with HYDRIDES ( $LiARH_4$ ) at high temperature, obtaining the Rossi effect, which consists in the fact that the heat produced is superior to the heat consumed to obtain the reaction. This invention is different from the former patents of the same inventor because the nature of the catalyzer is disclosed. The improvement is that gas is used also to obtain the Rossi Effect, not being anymore necessary the electric power as with the electric resistances of the former patents of the same inventor. The process, which coincides with the theory of the inventor, is the following: In a reactor are put nickel powders, HYDRIDES at a pressure of 3-6 bars and a temperature of 400-600 Celsius, and at one side of the reactor is put an anode, at the opposite a cathode, so that electrons are accelerated up to 100 keV. At these conditions neutrons are freed from the reactants and further recaptured by the atoms emitting photons with energies between 50 and 100 keV, which are thermalized. This way more thermal energy is produced than the energy supplied to the system.. This is the Rossi effect. The reactions happen in the

microcaves of the nickel powder which also shields the gamma rays during their thermalization: this makes intrinsically safe the reactor, which does not emit radiations.

### How Invention Works:

The invention can be useful to produce heat, electric power, steam, hot air and also fuel engines like for example Sterling Engines.

### Please list and describe the main components or steps of your invention.

The parts of the reactor are: 1- a reactor, closed, in which nickel powder, hydrides are put 2- a heat source, as for example a gas burner or an electric resistance, to heat the reactor 3- a heat exchanger to convert the heat into the desired energy form 4- a generator of direct current connected with a cathode and an anode to accelerate the electrons

### CLAIMS

WHAT IS CLAIMED IS THE USE OF HYDRIDES TOGETHER WITH HYDROGEN AND NICKEL TO OBTAIN EXOTHERMIC REACTIONS, TOGETHER WITH HYDROGEN AND ~~DEUTERIUM~~ DEUTERIUM.

IN PARTICULAR THE PREFERRED HYDRIDES  $LiAlH_4$