

## Provisional Patent Application

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### --- 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 bein 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  $LiAlH_4$