

# FRENCH PATENT APPLICATION

PATENT REQUEST NO. 75 06619 (REPUBLIC OF FRANCE)

APPARATUS AND COMBINATION OF MEANS ALLOWING THE CONDITIONING OF A MIXTURE OF WATER AND CARBURANT, AND, TO THE LIMIT OF PURE WATER, PROVOKING A THERMOCHEMICAL REACTION GENERATING THE PRODUCTION OF HYDROGEN AND A PLASMA STATE OF MATTER--FOR USE IN A THERMAL MOTOR OR IN A HEATING SYSTEM

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(First para identical to above device description)

The present invention concerns the use of heat energy produced: at first by any carburant at all, then by a mixture of water and carburant, and finally by pure water; the product may take the form of thermal energy (as in burners, boilers, etc.) or that of propulsive energy (internal combustion engines or jet engines)

The decomposition of water into its constituent elements is an accomplished fact:

- by electrolytic process
- by thermochemical process.

In these two cases, the processes necessitate:

- a considerable supply of electrolytic or heat energy
- the storage of the oxygen and hydrogen
- the transport of these products
- their different utilization.

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The device proposed here allows the avoidance of these inconveniences (preliminary outlay of energy, storage, transport and handling as above since it allows for the rapid and direct thermochemical decomposition of water at the moment and proper amount of and for its use. The heat energy necessary and indispensable to the internal thermochemical reaction is assured by a "closed cycle," by the mode of utilization itself, which eliminates the inconveniences precipitated by and dangers inherent in the usual processes.

Beyond these advantages, this invention aims equally at a very economic means of energy production.

The apparatus described hereinafter constitutes the device allowing the conditioning of the mixture before its introduction into the intake manifold of the motor. This mixture is comprised of water and carburant (gasoline, gas-oil, alcohol, ammonia...etc.) and, to the limit // NOTE: the phrase "to the limit" is not particularly clear here and could mean "an equal amount" OR "to the limit of the reaction" - 25% or 50% of pure water--in view of its utilization in a thermal motor or in a system of heat production. The apparatus is essentially a high temperature heat-exchanger, of the static type, having the effect of provoking, through the intervention of a certain rate of thermal flow, a thermochemical decomposition, partial or total, of the fuel mixture or its components