

Water Fuel Injection System

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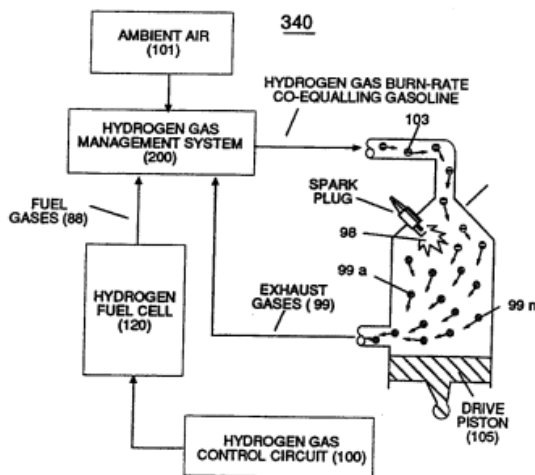


FIGURE 3-38: RETROFIT ENERGY SYSTEM

WFC **Hydrogen Gas Management System** is ideally suited as a retrofit energy system to both reciprocating (rotary piston engine) and turbine jet engines associated with the aviation industry ... but in different ways:

Reciprocating WFC fuel-kits can be similar to **car design** (340) of Figure (3-38) of WFC (422 DA);

Whereas, **Water Fuel Injector Kit** (10) of Figure (4-1) can be alternately be used as a self-contained Fuel-unit having no pressurized vessel which converts water directly into thermal explosive energy (gtnt) on demand, as illustrated (10) of Figure (4-1) as to Figure (40) of Figure (4-2).

Figure (4-1)

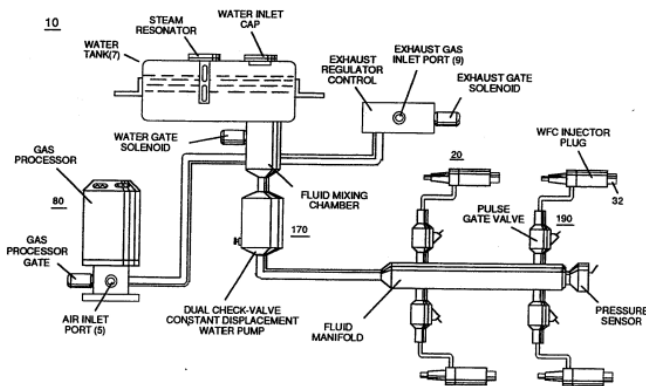


FIGURE 4-1: WATER FUEL INJECTOR SYSTEM

Figure (4-2)

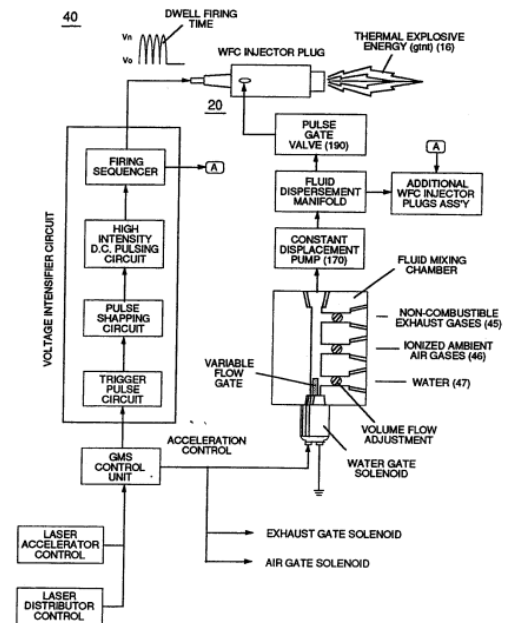


FIGURE 4-2: WATER FUEL MANAGEMENT (WFM) SYSTEM

Operationally, **Water Fuel** injector assembly (10) of Figure (4-1) as to (40) of Figure (4-2) performs several function simultaneously to produce thermal explosive **energy-yield** (gtnt) (16) on demand:

First **water mist** (47) of Figure (4-4) is injected into **fuel-mixing chamber** (35) of Figure (4-5) by way of **water spray ports** (41a xxx 41n) of Figure (4-4);

Figure (4-5)

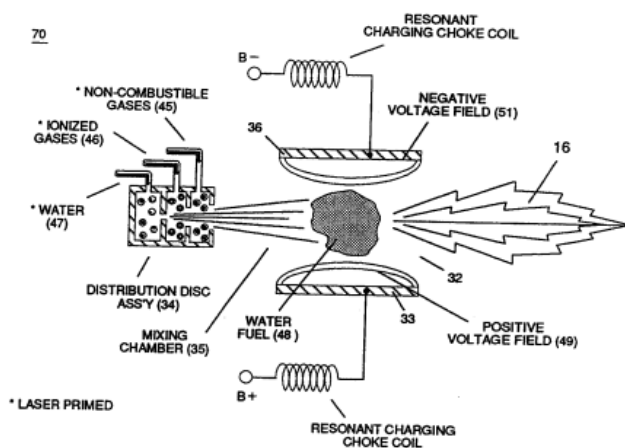


FIGURE 4-5: VOLTAGE TRIGGERING

Figure (4-4)

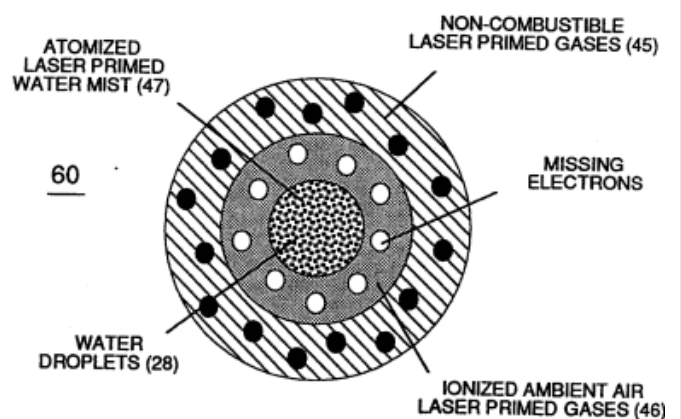
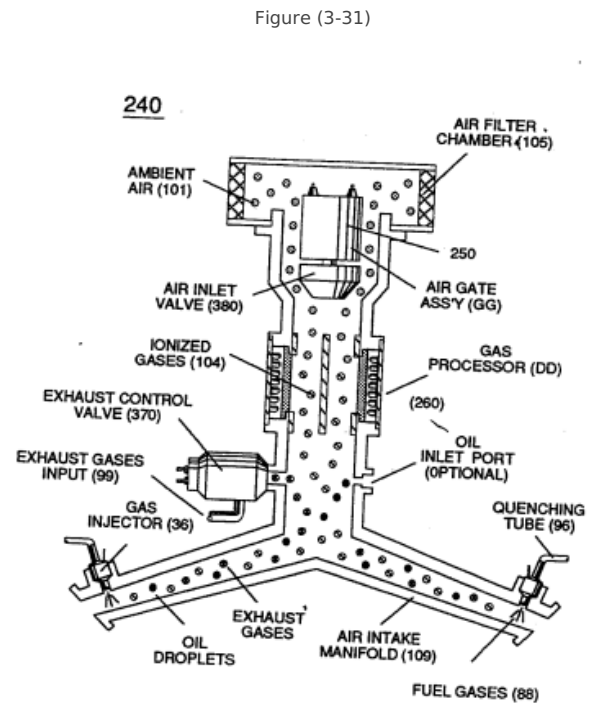
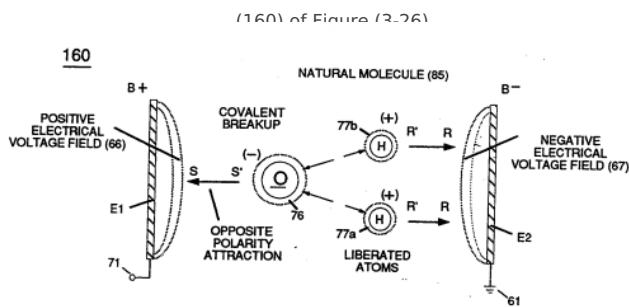


FIGURE 4-4: SPRAY PATTERN

Secondly, **ionized air gases** (46a xxx 46n) of Figure (4-4) (laser primed ambient air gases having missing electrons) produced by **Ambient Air Ionizer** (80) of Figure (4-6) as to Figure (4-1) and **non-combustible gases** (45) of Figure (4-4) are intermixed with **expelling water mist** (47a xxx 47n) to form **Water-fuel** mixture (48) by way of **gas mixing disc** (34) of Figure (4-5) as to (30) of Figure (4-2);

thirdly, the resultant moving **Water-Fuel** mixture (48) of Figure (4-5) enters into **Voltage Igniter Stage** (180) of Figure (4-5) and exposed to high intensity voltage fields (33/36) (*typically 2,000 volts or above @ 10 Khz or above*) of opposite electrical polarity (E7 / E8)

...which, in turn, not only performs electrical polarization process (160) of Figure (3-26) undergoing **Dielectric Resonant** (240) of Figure (3-31);



but, also, sets up and triggers **Hydrogen Fracturing Process** (390) of Figure (3-42) as to Figure (3-6) under control state (on demand) via **electrical-static spark ignition** (49/51) of Figure (4-5)

Hydrogen Fracturing Process (390) of Figure (3-42)

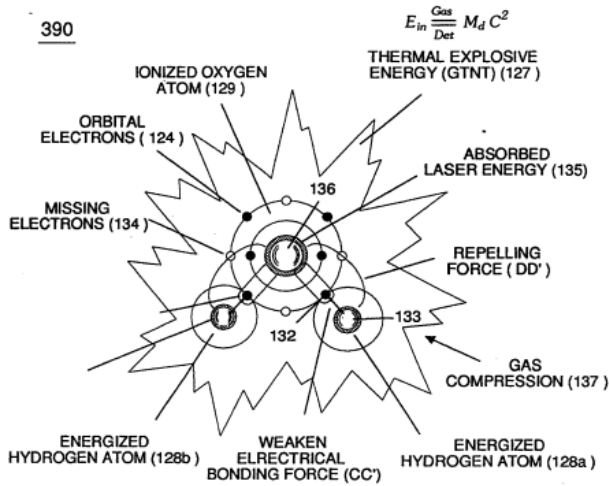


FIGURE 3-42: HYDROGEN FRACTURING PROCESS

Figure (3-6)

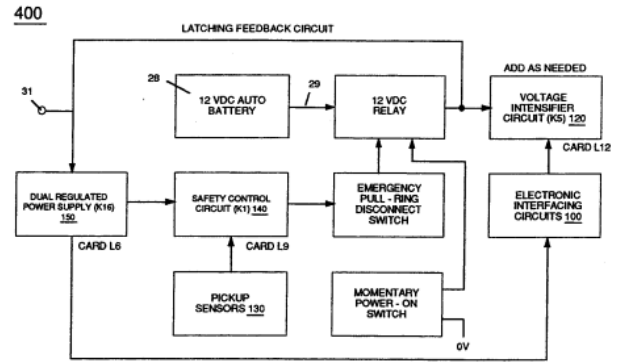


FIGURE 3-6: SAFETY INTERLOCK CIRCUIT

Figure (4-5)

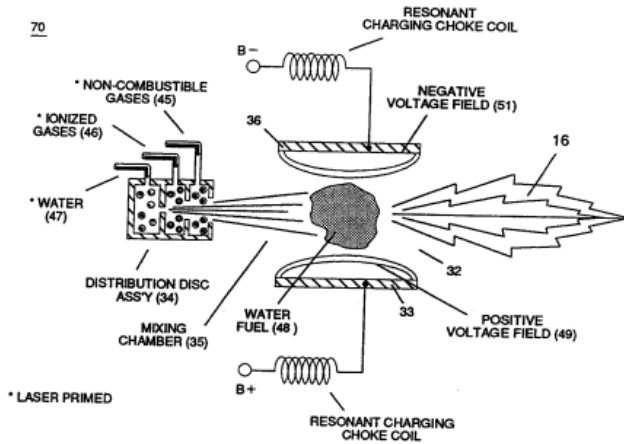


FIGURE 4-5: VOLTAGE TRIGGERING

.... releasing **thermal explosive energy** (gtnt) (16) passing beyond gas exit port (32) of Figure (4-5), as further illustrated in Figure (4-2) as to Figure (4-1).

Figure (4-1)

10

WATER TANK(7)

STEAM RESONATOR

WATER INLET CAP

WATER GATE SOLENOID

GAS PROCESSOR GATE

80

GAS PROCESSOR

AIR INLET PORT (5)

DUAL CHECK-VALVE CONSTANT DISPLACEMENT WATER PUMP

170

FLUID MIXING CHAMBER

EXHAUST REGULATOR CONTROL

EXHAUST GAS INLET PORT (9)

EXHAUST GATE SOLENOID

20

PULSE GATE VALVE

190

WFC INJECTOR PLUG

32

FLUID MANIFOLD

PRESSURE SENSOR

FIGURE 4-1: WATER FUEL INJECTOR SYSTEM



10

STEAM RESONATOR

WATER INLET CAP

WATER TANK (7)

EXHAUST REGULATOR CONTROL

EXHAUST GAS INLET PORT (9)

EXHAUST GATE SOLENOID

WATER GATE SOLENOID

GAS PROCESSOR

80

GAS PROCESSOR GATE

AIR INLET PORT (5)

FLUID MIXING CHAMBER

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DUAL CHECK VALVE CONSTANT DISPLACEMENT WATER PUMP

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PULSE GATE VALVE

WFC INJECTOR PLUG

FLUID MANIFOLD

PRESSURE SENSOR

FIGURE 4-1: WATER FUEL INJECTOR SYSTEM

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