

# Water Fuel Injection System

## - Page 4

**WFC injector assembly** (10) of Figure (4-1) as to (30) of Figure (4-2) is design variable to be retrofitable by replacing fossil-fuel injector ports affixed to **jet engines** (see Figure 4-13)

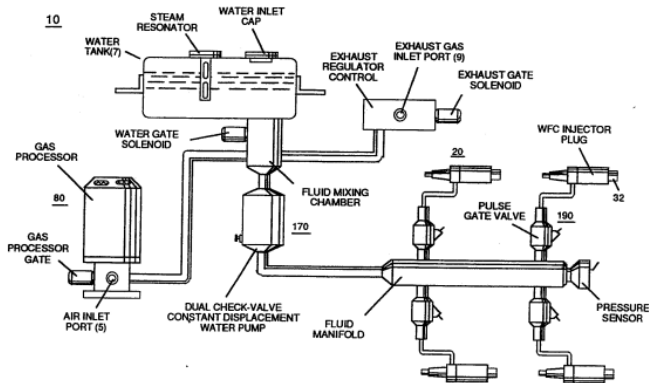


FIGURE 4-1: WATER FUEL INJECTOR SYSTEM

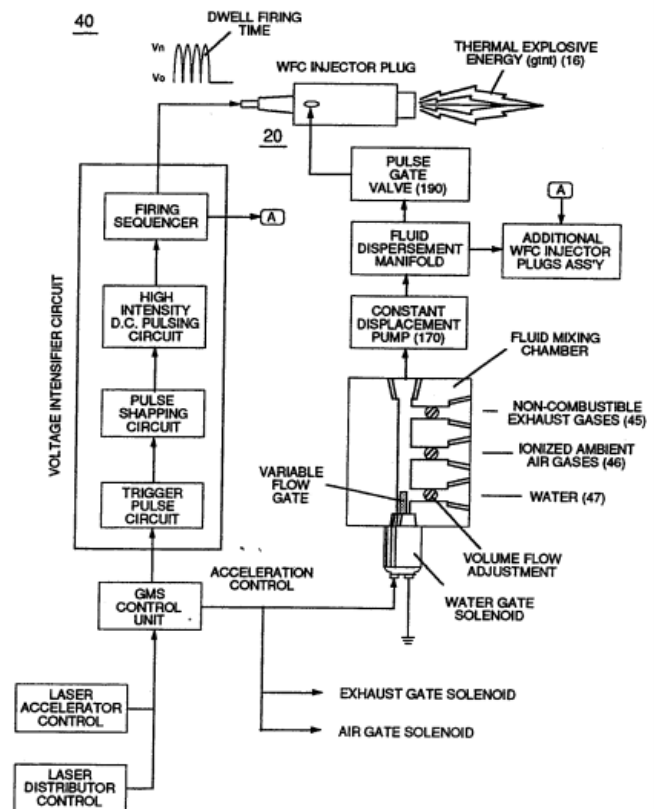


FIGURE 4-2: WATER FUEL MANAGEMENT (WFM) SYSTEM

**heating systems** (Figure 4-12), **rockets engines** (Figure 4-14), or even car **spark plugs** (130) of Figure (4-11)

Figure (4-12)

The diagram illustrates the operation of a WFC injector cluster array. On the left, a rotating fan draws air from an inlet, creating air movement through a duct. This air is directed towards a cluster of WFC injectors. The injectors are shown firing, with a dwell firing time indicated by a waveform labeled  $V_n$  and  $V_o$ . The resulting superheated air is shown exiting the array on the right. A detailed view of a single WFC injector is shown at the bottom right, highlighting its internal structure and the dwell firing time.

150

TURBOJET MODE

COMPRESSOR STAGE

WFC INJECTOR

COMBUSTION CHAMBER

AFTERBURNER

THERMAL EXPLOSIVE ENERGY (gtrnt) (16)

AIR INTAKE

EXHAUST THRUST

THERMAL EXPLOSIVE ENERGY (gtrnt) (16)

R PLUG

Figure (4-14)

The diagram illustrates a rocket engine retrofit. On the left, a 'WATER FUEL INLET' line leads to a 'COMPRESSOR PUMP'. The pump's output is distributed to a 'WFC INJECTOR CLUSTER - ARRAY' consisting of three separate injector units. Each injector unit is connected to a 'THERMAL EXPLOSIVE ENERGY (gH)' manifold. The manifold is a large, cylindrical component that also houses a 'THRUST ACCUMULATOR MANIFOLD'. The entire assembly terminates in a 'NOZZLE PORT', which produces a 'SUPER ROCKET FLAME' represented by a large, jagged arrow pointing to the right.

160

WFC INJECTOR CLUSTER - ARRAY

THERMAL EXPLOSIVE ENERGY (gH)

THRUST ACCUMULATOR MANIFOLD

SUPER ROCKET FLAME

NOZZLE PORT

COMPRESSOR PUMP

WATER FUEL INLET

FIGURE 4-14: ROCKET ENGINE RETROFIT



Sequential pulsing of **Water Fuel Injector** (20/30) of Figure (4-1) as to (40) of Figure (4-2) is system activated by **Pulse Gate Valve** (190) of Figure (4-1) to further control a predetermined **energy-flame** (16).

In essence, then, the **Water Fuel Injector** system (40) simply processes and converts water into a useful hydrogen fuel on demand at the point of gas ignition

... thereby, **co-equally** or **superseding** fossil-fuel safety standards

... especially when **ionized ambient air gases** (400 xxx 46n) and **non-combustible gases** (45a xxx 45n) are intermixed with **water supply** (47) prior to entering **Water Fuel Injector Plug** (20/30), as illustrated in (40) of Figure (4-2) as to (10) of Figure (4-1).

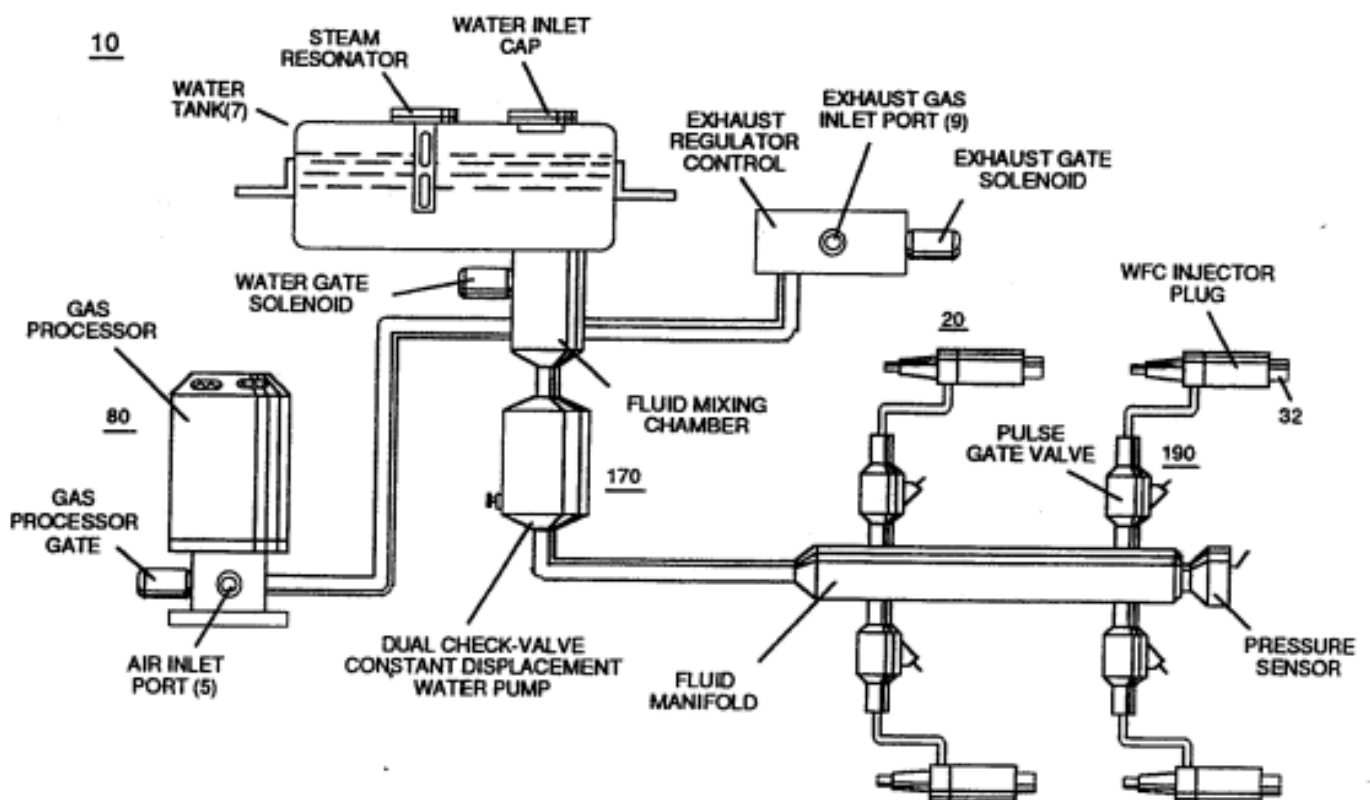


FIGURE 4-1: WATER FUEL INJECTOR SYSTEM

Revision #3

Created 19 December 2023 23:16:16 by Chris Bake

Updated 20 December 2023 04:43:51 by Chris Bake