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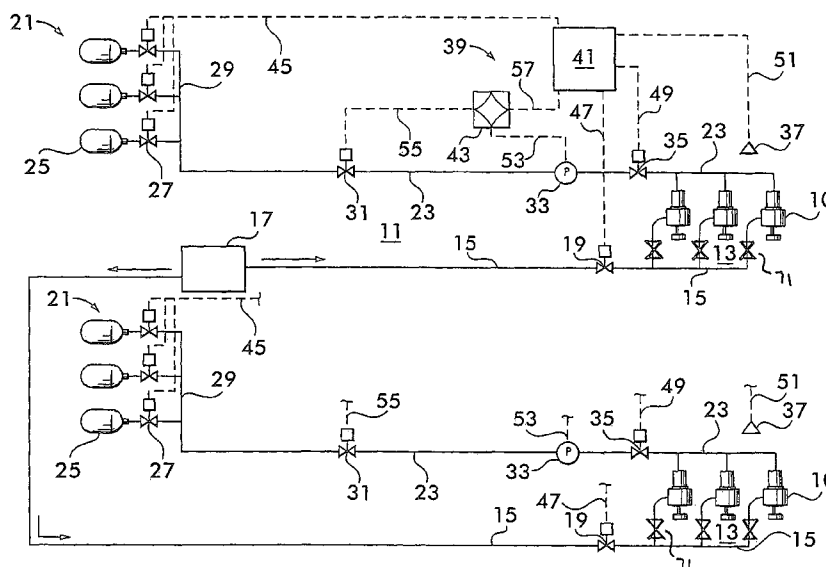
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[Continued on next page]

(54) Title: DUAL EXTINGUISHMENT FIRE SUPPRESSION SYSTEM USING HIGH VELOCITY LOW PRESSURE EMITTERS



(57) Abstract: A fire suppression system is disclosed. The system includes a gaseous extinguishing agent and a liquid extinguishing agent. At least one emitter is in fluid communication with the liquid and gas. The emitter is used to establish a gas stream, atomize and entrain the liquid into the gas stream and discharge the resulting liquid-gas stream onto the fire. A method of operating the system is also disclosed. The method includes establishing a gas stream having first and second shock fronts using the emitter, atomizing and entraining the liquid with the gas at one of the two shock fronts to form a liquid-gas stream, and discharging the stream onto the fire. The method also includes creating a plurality of shock diamonds in the liquid-gas stream discharged from the emitter.



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