

Title (en)

COMBUSTION APPARATUS AND METHOD FOR COMBUSTING A PRESSURIZED FUEL

Publication

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Application

**EP 89905357 A 19890410**

Priority

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Abstract (en)

[origin: WO8909911A1] The invention provides a combustion device such as a stove (10) which may include a pressurized fuel mixture, such as an aerosol container (16) containing alcohol and a propellant which may comprise a normally gaseous hydrocarbon, such as a liquified petroleum gas. The propellant and air are fed to a combustion zone (26) as a combustion mixture, which is combusted therein in a cold start period to pre-heat the liquid fuel and vaporize it. When the liquid fuel is vaporized by the heat provided by combusting the propellant gas, combustion is continued by combusting the vaporized liquid, e.g., alcohol, fuel. The pressurized fuel composition may comprise a major proportion of alcohol together with a minor proportion of the hydrocarbon propellant starter fuel. The method therefore includes carrying out an initial, cold-start phase of combustion utilizing the propellant as fuel, and a subsequent stage of combustion utilizing the vaporized liquid fuel. Propellant gas, if any, dissolved in or otherwise carried over with the liquid fuel may also be combusted during the subsequent stage of combustion.

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- [X] US 2070209 A 19370209 - KERR ARTHUR N
- [X] FR 807728 A 19370120
- [A] DE 238730 C
- [A] US 1512206 A 19241021
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