

Title (en)
METHOD AND APPARATUS FOR OPERATION OF ENGINES

Title (de)
VERFAHREN UND GERÄT ZUM BEDIENEN VON MASCHINEN

Title (fr)
PROCEDE ET APPAREIL POUR UN FONCTIONNEMENT AMELIORE DE MOTEURS

Publication
EP 0793772 A1 19970910 (EN)

Application
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Abstract (en)
[origin: WO9527845A1] A process for operating a combustion engine (300) which comprises the steps of converting a fuel precursor containing hydrogen to produce substantial amounts of engine-fuel containing free hydrogen and combusting substantial amounts of engine-fuel as a stratified-charge fuel within each combustion chamber of the engine (300). Waste energy resources selected from the group including engine-cooling-system heat (14), exhaust-gas heat (22), and stopping energy (380), are utilized to produce engine-fuel from feedstocks selected from the group (of Equations 1-14) including fuel alcohols, phenols, ammonia, ammonium compounds, gasoline, diesel fuel, cyanoacetic acid, cyanocarbons, carbon, and water. Fuel delivery is preferably as a stratified charge by instrumented fuel injector (40) to the combustion chamber during compression conditions of engine operations (by engine 300) and when this is not practical as a result of fuel pressure loss due to storage depletion or fuel pressurization system failure, fuel delivery during intake conditions of the combustion chamber are practiced.

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