

Title (en)  
SYSTEM FOR REFORMATION OF FUEL FOR SUPPLY TO A FUEL CELL ON A MOTOR VEHICLE AND METHOD FOR OPERATION THEREOF

Title (de)  
BRENNSTOFFREFORMIERUNGSSYSTEM ZUR VERSORGUNG EINER BRENNSTOFFZELLE IN EINEM FAHRZEUG UND VERFAHREN ZUM BETREIBEN

Title (fr)  
SYSTEME DE REFORMATAGE DE CARBURANT POUR L'ALIMENTATION D'UNE PILE A COMBUSTIBLE DE VEHICULE AUTOMOBILE ET PROCEDE DE MISE EN OEUVRE

Publication  
**EP 1593171 A1 20051109 (FR)**

Application  
**EP 03799673 A 20031219**

Priority  
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• FR 0216600 A 20021224

Abstract (en)  
[origin: FR2849278A1] The reforming system comprise two channels in parallel. Each includes a reformer (29), hydrogen enrichers (30, 31) and a purification device. The temperature of each stage is kept at an optimal operating level by heat exchangers (33, 34, 35). The reforming system comprise two channels, each having the same components. The channels (a, b) are in parallel, and each comprises a reformer (29a,29b), a high temperature hydrogen enricher (30a,30b) and a second hydrogen enricher (31a, 31b) operating at a less high temperature. This is followed by a purification device operating with carbon monoxide reacting with the reformed product. The temperature of each stage is kept at an optimal operating level by heat exchangers (33a,b; 34a,b; 35a,b). A burner (36) producing heat energy which is supplied to a heat exchanger (37) receives air from a channel (18). The hot air from the exchanger (37) passes through the reactors (29, 30, 32, 32) to heat them. The combustion gas from the burner (36) passes through the exchangers (33, 34, 35).

IPC 1-7  
**H01M 8/06**; **H01M 8/04**; **H01M 16/00**; **B60L 11/18**

IPC 8 full level  
**B01D 53/62** (2006.01); **B01J 19/00** (2006.01); **B60L 11/18** (2006.01); **C01B 3/38** (2006.01); **C01B 3/48** (2006.01); **H01M 8/04** (2006.01)

CPC (source: EP US)  
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