

Title (en)
Sectoral fuel injection head.

Title (de)
In Sektoren aufgeteilter Einspritzkopf für Kraftstoff.

Title (fr)
Dispositif d'injection à bol sectorisé.

Publication
EP 0224397 A1 19870603 (FR)

Application
EP 86402290 A 19861015

Priority
FR 8515925 A 19851018

Abstract (en)
[origin: US4696157A] A fuel and air injection system for a turbojet engine is disclosed wherein a bowl-shaped member surrounding the fuel injection nozzle defines an impact cooling chamber divided into four sectors. A pair of diametrically opposite sectors have openings to permit air to pass through the cooling chamber into the combustion chamber, while opposite diametrically opposed sectors have openings of larger diameter which also allow communication between the cooling chamber and the combustion chamber. A diaphragm control system allows the air passing into the sectors having the larger diameter openings to be modulated depending upon the throttle setting of the turbojet engine.

Abstract (fr)
L'invention concerne un dispositif d'injection d'air et de carburant dans une chambre de combustion de turbomachine. Le dispositif d'injection comprend un bol d'entrée d'air possédant une chambre de refroidissement par impact divisée en quatre secteurs égaux (16a, 16b) opposés deux à deux et séparés par des cloisons radiales (21) deux premiers secteurs (16a) comprenant des trous de bol de faible diamètre et deux seconds secteurs comportant des trous de bols de gros diamètre, pouvant être diaphragmés.

IPC 1-7
F23R 3/26; **F23C 7/00**; **F23R 3/10**

IPC 8 full level
F23R 3/28 (2006.01); **F23C 7/00** (2006.01); **F23D 11/12** (2006.01); **F23R 3/10** (2006.01); **F23R 3/26** (2006.01); **F23R 3/50** (2006.01)

CPC (source: EP US)
F23C 7/008 (2013.01 - EP US); **F23R 3/10** (2013.01 - EP US); **F23R 3/26** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
FR 2588919 A1 19870424; **FR 2588919 B1 19871204**; DE 3661440 D1 19890119; EP 0224397 A1 19870603; EP 0224397 B1 19881214; JP H0637977 B2 19940518; JP S62106223 A 19870516; US 4696157 A 19870929

DOCDB simple family (application)
FR 8515925 A 19851018; DE 3661440 T 19861015; EP 86402290 A 19861015; JP 24729286 A 19861017; US 91912686 A 19861015