

Title (en)  
Aerodynamic injection system for a combustion chamber

Title (de)  
Aerodynamisches Einspritzsystem für eine Brennkammer

Title (fr)  
Système d'injection aérodynamique de chambre de combustion

Publication  
**EP 0598662 B1 19960403 (FR)**

Application  
**EP 93402788 A 19931117**

Priority  
FR 9213832 A 19921118

Abstract (en)  
[origin: EP0598662A1] The present invention relates to an aerodynamic injection system of an annular combustion chamber (3), including at least one injection head equipped with a plurality of air and fuel injection devices evenly distributed circumferentially in the bottom of the chamber (2), each of the said injection devices comprising a fuel injector (6), an external swirl-inducer (7) for the passage of the air for atomising the fuel and a bowl-shaped body (1) including a downstream thin shell (8) which is flared in the direction of flow and provided with a row of bowl holes (9) for injecting air into the cone of atomised fuel, characterised in that the thin shell (8) exhibits a substantially ellipse-shaped transverse section, the axis of smaller dimension being located in an axial plane of the combustion chamber (3), and in that the injector (6) includes a plurality of fuel-injection holes (10) of different diameters. <IMAGE>

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IPC 8 full level  
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