

Title (en)
Combustion chamber for ram jet.

Title (de)
Brennkammer für Staustrahltriefwerk.

Title (fr)
Chambre de statoréacteur à combustion supersonique.

Publication
EP 0401107 A1 19901205 (FR)

Application
EP 90401425 A 19900529

Priority
FR 8907019 A 19890529

Abstract (en)
Supersonic combustion ramjet comprising a combustion chamber, through which an air flow is intended to pass longitudinally at supersonic speed; a first injection device (20) for injecting a gaseous fuel flow (24) into the chamber at a speed of entry into the chamber having a transverse component of low amplitude; and a second injection device (30) located downstream of the first in the direction of flow of the air at supersonic speed, in order to inject into the chamber a gaseous oxidant flow (34) which contributes to breaking away from the wall of the chamber the gaseous fuel flow (24) injected by the first injection device. <IMAGE>

IPC 1-7
F02K 7/10; **F02K 9/44**; **F02K 9/62**; **F23R 3/00**; **F23R 3/34**

IPC 8 full level
F02K 7/14 (2006.01); **F23R 3/00** (2006.01); **F23R 3/28** (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP)
F23R 3/007 (2013.01); **F23R 3/346** (2013.01)

Citation (search report)

- [X] US 3864907 A 19750211 - CURRAN EDWARD T
- [Y] US 2658332 A 19531110 - NICHOLSON KENNETH C
- [Y] DE 1278319 B 19690417 - BBC BROWN BOVERI & CIE
- [A] GB 2196393 A 19880427 - GEN ELECTRIC
- [A] GB 2053873 A 19810211 - EUROP PROPULSION
- [A] US 3114961 A 19631224 - HAROLD CHAMBERS HUBERT, et al
- [A] FR 2158572 A1 19730615 - PENNY ROBERT
- [A] GB 2089434 A 19820623 - ROLLS ROYCE
- [A] GB 1046909 A 19661026 - GUR CHARAN SAINI

Cited by
US6151887A; CN103343983A; CN108317541A; GB2518211A; GB2518211B; FR2836698A1; EP1342904A1; FR2836699A1; EP1342905A1; US7000398B2; US6915627B2; WO9904156A1; WO03074858A3; WO03074859A1

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