Title (en)

USE OF MIXED GASES IN HYBRID AIR BAG INFLATORS

Title (de)

GEBRAUCH EINER GASMISCHUNG IN HYBRIDEN AIRBAGAUFBLASVORRRICHTUNEN

Title (fr)

UTILISATION DE MELANGES DE GAZ DANS DES GONFLEURS HYBRIDES DE COUSSINS GONFLABLES DE SECURITE

Publication

EP 0921967 A4 20011107 (EN)

Application

EP 96929766 A 19960829

Priority

US 9613826 W 19960829

Abstract (en)

[origin: CA2263406A1] Particulate-free non-toxic gases are generated in a hybrid generator device by conducting the ignition of the propellant with an effective oxidizer, using a mixture of a molecular oxygen-containing gas and argon by varying the ratio of the gas to argon to provide only non-toxic reaction products in the exhaust gas. The inventive device includes an initiator (1), which ignites in response to a sensor and gives off hot gas that ignites the ignition charge (2) which causes the main generant charge (8) to combust, generating the inflation gas mixture (3). When the pressure in the gas mixture increases to a certain point, the seal disc (6) ruptures permitting the gas mixture to exit the manifold (4) through the outlet ports (5) and inflate an air bag. The generant container (9) holds the main generant charge (8). All the charges and the inflation gas mixture are enclosed in the pressure tank (7).

IPC 1-7

B60R 21/26; B60R 21/32

IPC 8 full level

B60R 21/26 (2006.01); **C06D 5/00** (2006.01)

Citation (search report)

- [A] DE 9416112 U1 19941215 - CONTEC CHEMIEANLAGEN GMBH [DE]
- [A] US 5386775 A 19950207 - POOLE DONALD R [US], et al
- [A] US 3845970 A 19741105 - HERRMANN G
- See references of WO 9808716A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

AU 6903896 A 19980319; CA 2263406 A1 19980305; EP 0921967 A1 19990616; EP 0921967 A4 20011107; JP 2001500835 A 20010123

DOCDB simple family (application)

AU 6903896 A 19960829; CA 2263406 A 19960829; EP 96929766 A 19960829; JP 51158098 A 19960829