

Title (en)

USE OF MIXED GASES IN HYBRID AIR BAG INFLATORS

Title (de)

GEBRAUCH EINER GASMISCHUNG IN HYBRIDEN AIRBAGAUFBLASVORRICHTUNEN

Title (fr)

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

Publication

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Application

EP 96929766 A 19960829

Priority

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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).

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