

Title (en)

AIRBAG WITH NON-CIRCULAR VENT HOLE

Title (de)

AIRBAG MIT NICHT KREISFÖRMIGEN ENTGASÖFFNUNGEN

Title (fr)

SAC GONFLABLE DE SECURITE AVEC EVENT NON CIRCULAIRE

Publication

EP 0907528 A1 19990414 (EN)

Application

EP 97933145 A 19970625

Priority

- US 9710492 W 19970625
- US 2085196 P 19960628
- US 2150096 P 19960710

Abstract (en)

[origin: WO9800313A1] This disclosure describes an airbag in which non-circular vent holes replace traditional circular vent holes. Vent holes, in general, provide a geometric asymmetry in the airbag pattern and induce a stress concentration in the geometry. Investigation of airbag deployments has shown that circular vent holes elongate during the early stages of a deployment. This causes stress concentrations at the two circumferential points of the circle as the fabric is strained. Based on this discovery, the inventors determined that a non-circular vent hole, such as an ellipse or rectangle would be advantageous during the early deployment since this non-circular vent hole has assumed a more natural position during this early straining, thereby not inducing additional straining in this region.

IPC 1-7

B60R 21/16

IPC 8 full level

B60R 21/276 (2006.01); **B60R 21/16** (2006.01); **B60R 21/239** (2006.01)

CPC (source: EP KR)

B60R 21/16 (2013.01 - KR); **B60R 21/239** (2013.01 - EP)

Citation (search report)

See references of WO 9800313A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9800313 A1 19980108; AU 3640897 A 19980121; BR 9710084 A 19990810; CA 2259373 A1 19980108; CN 1228740 A 19990915; EP 0907528 A1 19990414; JP 2000514014 A 20001024; KR 20000022542 A 20000425

DOCDB simple family (application)

US 9710492 W 19970625; AU 3640897 A 19970625; BR 9710084 A 19970625; CA 2259373 A 19970625; CN 97197495 A 19970625; EP 97933145 A 19970625; JP 50417898 A 19970625; KR 19980710990 A 19981228