

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
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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

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Citation (search report)

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