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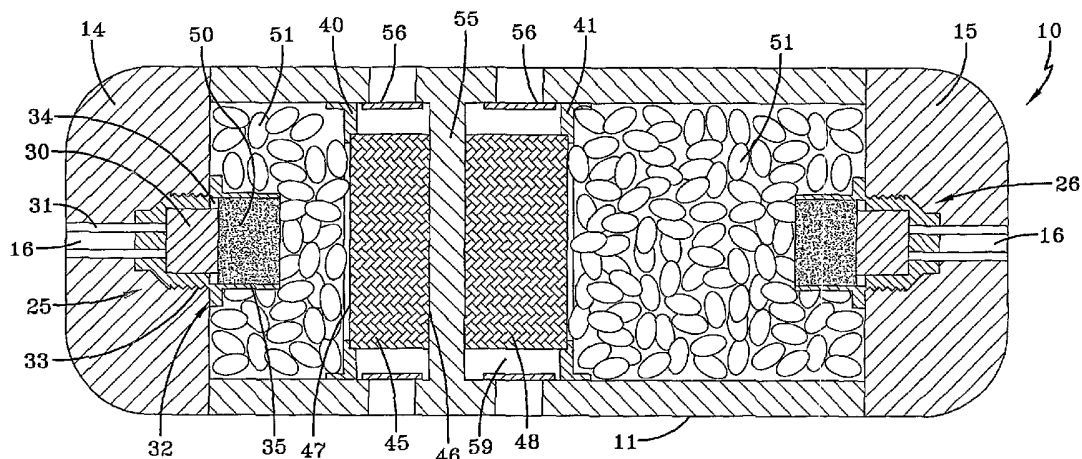
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(54) Title: TUBULAR DUAL STAGE INFLATOR



(57) Abstract: A tubular inflator (10) has a bulkhead (55) that divides the inflator into first and second combustion chambers (57, 58). Each combustion chamber has an igniter assembly (25, 26), gas generant (51), and compressed wire filter (45, 48). The wire filters in the inflator (10) are positioned so that they contact the bulkhead (55). The filters and the bulkhead (55) prevent sympathetic ignition in the inflator, which is defined as the ignition of gas generant (51) in one combustion chamber from the heat generated from the burning of the gas generant (51) in the other combustion chamber. The igniter assembly has an igniter core (30) that is molded by a unitary plastic material. The plastic overmold has threads (33) for attaching the igniter assembly to the inflator (10), and the plastic overmold has a retainer portion (35) for retaining an enhancer tablet (50).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/03871

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B60R 21/26

US CL : 280/741

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 280/741, 736, 742, 740; 102/202, 202.9, 202.5, 202.7, 202.14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,314,888 B1 (MULLER et al) 13 November 2001 (13.11.2001), column 2, lines 21-55.	1-6
Y		7-8
Y	US 6,526,890 B1 (VIDOT et al) 04 March 2003 (04.03.2003), column 3, line 65 - column 4, line 3.	7-8
Y	US 4,881,463 A (NINIO et al) 21 November 1989 (21.11.1989), Figures 1-2.	8
A	US 6,149,193 A (CANTERBERRY et al) 21 November 2000 (21.11.2000), column 5, line 31 - column 6, line 43.	1-9
I	US 6,746,044 B2 (ELQADAH et al) 08 June 2004 (08.06.2004), column 3, lines 16-22.	7-9

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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