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(72) Inventors; and

(71) Applicants : **ALSHDAIFAT, Wasfi** [JO/AE]; P. O. Box 46618, Abu Dhabi (AE). **ALMUHAIRBI, Eida** [AE/AE]; P.O. Box 46618, Abu Dhabi (AE).

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(54) Title: SEMI-PNEUMATIC TIRE (INTIRE)

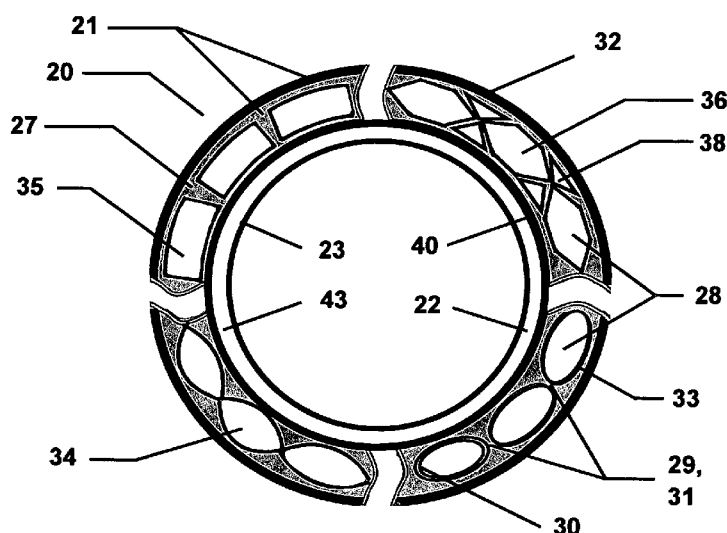


FIG. 2 - A

(57) Abstract: To provide a compact all in one tire (intire (20)) gathering multi-tires designs requirements inside it. Mainly the entire main features of the other designs are recreated and developed inside a conventional tire that is easily produced from the elastic rubber, polyurethane... to form a tire with a built-in main pneumatic portion (21) consisting of reinforced linings (30), reinforced web of elements (31) or single reinforced separate support pads (39, 41), and pneumatic portion (22) consisting of a secondary annular ring support (carcass). The main non- pneumatic (21) portion is enclosed in-between the tire's crown, 50-80 % sidewalls height, and the carcass of the secondary portion. Chambers (28) with suitable geometrical shapes bored inside the elastomeric main annular solid portion, having metallic embedded lining, or reinforced support pads (39, 41). While the secondary non-pneumatic portion from (22) the wheel rim side is designed to keep a suitable height of the tire's beads (23) required for removal and installation of the tire.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER IPC: B60C 17/06 (2006.01) 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) B60C 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) EPODOC, WPI, TXTnn		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3100518 A (RICHARD DRESSER) 13 August 1963 (13.08.1963) fig 1, 2	1-14
A	US 6105641 A (JASANI, SHIRISH RASIKCHANDRA ET AL.) 22 August 2000 (22.08.2000) fig 1-6	1-14
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report 16 August 2011 (16.08.2011)
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INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report			Patent family member(s)			Publication date
US	A	3100518	US	A	3100518	1963-08-13
US	A	6105641	AU	A	1953897	1998-08-25
			DE		69717284D	2003-01-02
			DE	D1	69717284	2003-01-02
			DE		69717284T	2003-07-24
			DE	T2	69717284	2003-07-24
			EP	A1	0921934	1999-06-16
			EP	B1	0921934	2002-11-20
			ID	A	19753	1998-07-30
			US	A	6105641	2000-08-22
			US	B1	6287101	2001-09-11
			US	B1	6290886	2001-09-18
			US	A1	2002020939	2002-02-21
			WO	A1	9833642	1998-08-06
			ZA	A	9800453	1998-07-30