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MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
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(54) Title: ONE-PIECE WHEEL PRODUCED BY CASTING A WHEEL HUB AND SPIN-FORMING RIMS

(57) Abstract: Method for forming a wheel hub (110) by means of a casting process which involves providing additional material (120) during the castin process at the perimeter of the hub in quantity sufficient to form a rim; spin-forming a rim about the hub using the additional material provided during the casting process; machining mounting features in the hub; and machining finish features into the rim

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **B23P 17/00(2006.01)**

USPC: 29/894,894.3,894.32-894.322,894.35-894.362;72/70

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. : 29/894,894.3,894.32-894.322,894.35-894.362; 72/70

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 5,092,040 (KATO ET AL) 03 MARCH 1992 (03.03.1992), SEE FIGS. 1-2, 5-6 AND 13	1, 3-4, 7, 9-10
Y	US 5,647,126 (WEI) 15 JULY 1997 (15.07.1997), SEE ENTIRE DOCUMENT	2, 8
Y	US 5,944,440 (KLEINSCHMIT ET AL) 31 AUGUST 1999 (31.08.1999), SEE ENTIRE DOCUMENT	5, 11
Y	US 4,345,360 (RIDOUT) 24 AUGUST 1982 (24.08.1982), SEE ENTIRE DOCUMENT	6, 12

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"A"	document defining the general state of the art which is not considered to be of particular relevance	"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
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"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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