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(54) Title: BELT DRIVE PULLEY WITH A NON-INTEGRALLY FORMED CENTERING FLANGE

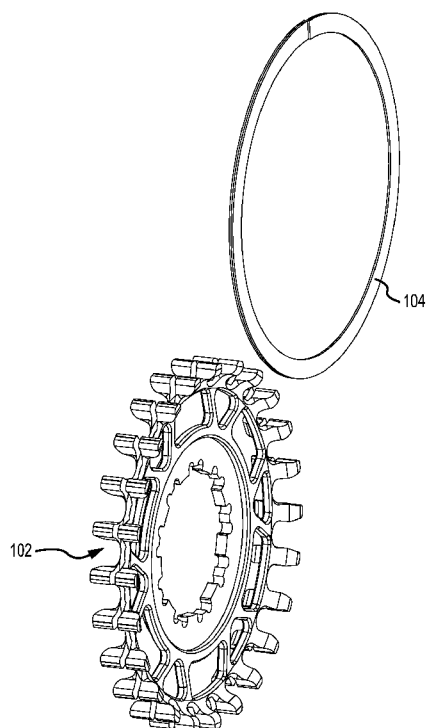


FIG.14

(57) Abstract: A pulley for use with a belt drive, the drive belt comprising a plurality of longitudinally spaced inner lugs each having an alignment groove dividing each lug into first and second segments. The pulley comprises a circular frame configured to rotate about a rotation axis. A plurality of circumferential teeth extend radially and axially of a peripheral edge of the circular frame. Each tooth is configured to be received between adjacent inner lugs of the drive belt. A tooth groove is provided in each of the teeth. The tooth groove is configured to align with the alignment groove of the drive belt. A circular alignment flange formed separately from the circumferential teeth is received in the tooth groove of each tooth. With the circular alignment flange received in the tooth groove of each tooth, the alignment flange is received in the alignment groove of a drive belt operatively associated therewith.



GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER***B62M 9/02(2006.01)i, F16H 55/36(2006.01)i, F16H 7/06(2006.01)i***

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)

B62M 9/02; F16H 55/36; F16H 7/00; F16H 55/30; F16H 55/17; B65G 23/06

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: belt, drive, align, pulley

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2011-0049831 A1 (LUMPKIN, WAYNE R.) 03 March 2011	1-3,8-12
A	See paragraphs [0025] - [0027], claims 1, 7, 12, 28, 29, 31, 32 and figures 1 - 9.	4-7
Y	JP 2006-131316 A (NITTA IND. CORP.) 25 May 2006	1-3,8-12
	See paragraphs [0012], [0013], [0015] and figures 1, 2, 4.	
A	US 05133694 A (COSTE, LAURENT) 28 July 1992	1-12
	See column 2, lines 5 - 14 and figures 1, 2.	
A	US 04634409 A (JOHNSON et al.) 06 January 1987	1-12
	See column 3, lines 6 - 24, column 5, lines 2 - 8 and figures 1, 4, 5.	
A	US 04072062 A (MORLING et al.) 07 February 1978	1-12
	See column 3, lines 52 - 62 and figure 2.	



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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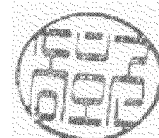
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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JP 2006-131316 A	25.05.2006	None	
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US 04072062 A	07.02.1978	None	