

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 August 2001 (30.08.2001)

PCT

(10) International Publication Number
WO 01/63144 A1

(51) International Patent Classification⁷: **F16G 5/16**

(21) International Application Number: PCT/US01/05548

(22) International Filing Date: 21 February 2001 (21.02.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/510,683 22 February 2000 (22.02.2000) US

(71) Applicant: **THE GATES CORPORATION** [US/US];
900 South Broadway, Denver, CO 80209 (US).

(72) Inventor: **SERKH, Alexander**; 316 Falling Brook Drive,
Troy, MI 48098-4696 (US).

(74) Agent: **THURNAU, Jeffrey**; The Gates Corporation, Mail
Stop: 31-4-1-A3, 900 S. Broadway, Denver, CO 80209
(US).

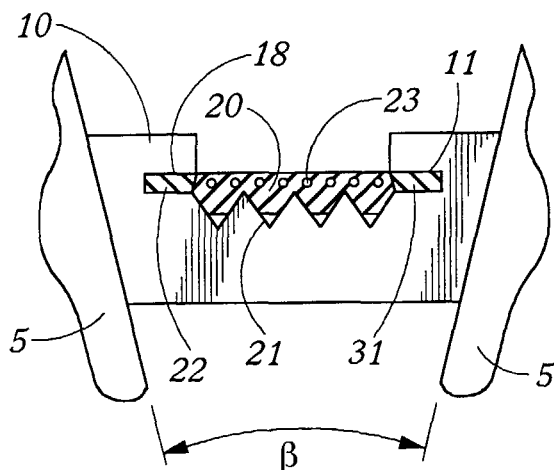
(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MULTI-RIBBED CVT BELT



(57) Abstract: The invention comprises a plurality of clips (10) arranged about a tensile member (20) or core belt. The tensile member comprises a multi-ribbed belt. The multi-ribbed belt may comprise any standard multi-ribbed belt readily available in the art. The clips are generally u-shaped and have opposing inclined sides that cooperate with the sides of a CVT pulley. The opposing inclined sides of each clip can have a thermoset, thermoplastic or phenolic coating to provide a predetermined coefficient of friction. Each clip has a multi-ribbed profile bearing surface that cooperates with the multi-ribbed portion of the core belt. The clips are held in proper orientation to the multi-ribbed belt by elastomeric bands (22, 31). The elastomeric bands are routed through a slot (11, 18) in each clip which then compresses the clips together.