

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 July 2001 (19.07.2001)

PCT

(10) International Publication Number
WO 01/51828 A1

(51) International Patent Classification⁷: **F16H 7/12**

(21) International Application Number: PCT/US01/00175

(22) International Filing Date: 3 January 2001 (03.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/482,128 12 January 2000 (12.01.2000) 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.

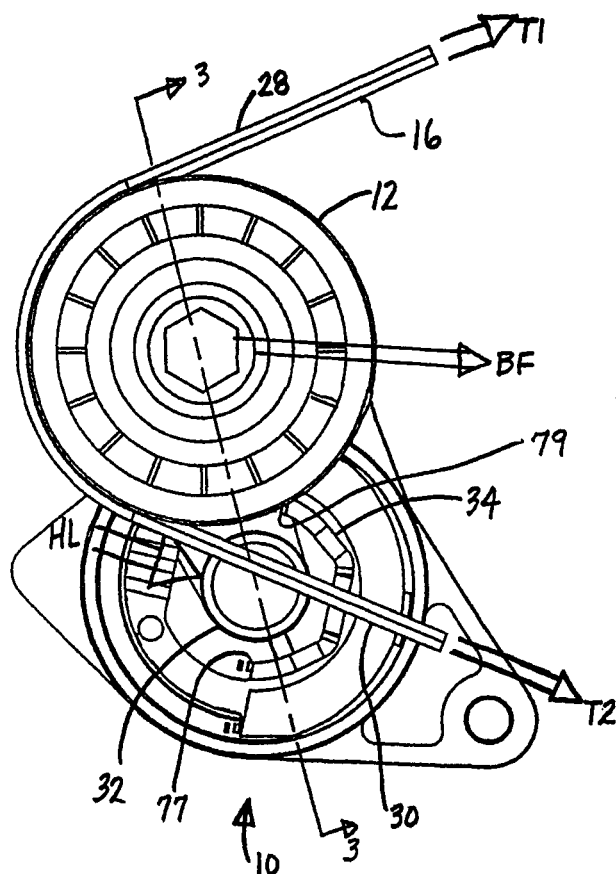
(84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

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: DAMPING MECHANISM FOR A TENSIONER



(57) Abstract: A damping mechanism (34) used in a tensioner (10) for tensioning a power transmission belt (16) including a damping plate (76) having a friction surface (78), at least one ramp surface (77) and first and second contact points (80, 82) for operatively connecting a spring (70) whereby the spring torque applied to damping mechanism in combination with a reactive force at the pivot surface generates a normal force.

WO 01/51828 A1