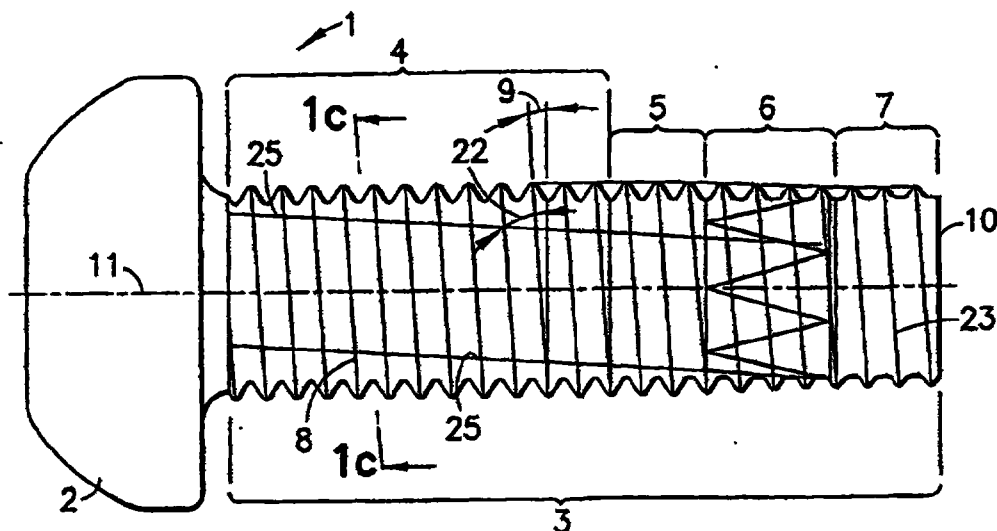




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : F16B 25/00, 33/02	A1	(11) International Publication Number: WO 00/11358 (43) International Publication Date: 2 March 2000 (02.03.00)
(21) International Application Number: PCT/US99/18223 (22) International Filing Date: 11 August 1999 (11.08.99) (30) Priority Data: 09/136,665 19 August 1998 (19.08.98) US (71) Applicant: PHILLIPS SCREW COMPANY [US/US]; 508 Edgewater Drive, Wakefield, MA 01880 (US). (72) Inventor: HUGHES, Barry, J.; Unit 8, Mast Hill Condominium, 612 Essex Avenue, Gloucester, MA 01930 (US). (74) Agent: GREEN, Clarence, A.; Perman & Green, LLP, 425 Post Road, Fairfield, CT 06430 (US).	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	

(54) Title: FASTENER HAVING A LOBULAR CROSS SECTION AND RIDGES ALONG THE THREAD AXIS



(57) Abstract

A fastener is constructed having four thread zones (4, 5, 6, 7) constructed over the length of the fastener (1), from the head (2) to the tip (10), namely a ridged cylindrical holding zone (4), a ridged cylindrical transition thread forming zone (5), a rectilobular tapered thread forming zone (6), and a rectilobular alignment zone (7). The pitch cross section of the thread varies in each zone.