

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : F16B 37/08, F16D 1/09		A1	(11) International Publication Number: WO 95/33931
			(43) International Publication Date: 14 December 1995 (14.12.95)
(21) International Application Number: PCT/GB95/01264		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).	
(22) International Filing Date: 1 June 1995 (01.06.95)		Published With international search report. 9612055-5	
(30) Priority Data: 9411313.1 7 June 1994 (07.06.94) GB			
(71) Applicant (for all designated States except US): HEDLEY PURVIS LIMITED [GB/GB]; Coopies Lane Industrial Estate, Morpeth, Northumberland NE61 6JU (GB).			
(72) Inventor; and (75) Inventor/Applicant (for US only): CAMPBELL, David [GB/GB]; 26 Chiltern Close, Ashington, Northumberland NE63 0HZ (GB).			
(14) Agent: SANDERSON, Michael, John; Mewburn Ellis, York House, 23 Kingsway, London WC2B 6HP (GB).			
(54) Title: IMPROVED REACTION NUT			
(57) Abstract			
A reaction nut for location on a threaded bolt, particularly a bolt to be tensioned by a hydraulic tensioning device, comprises a plurality of internally-threaded segments (22) movable between an outermost inoperative position radially spaced from the bolt (2), and an operative position making threaded engagement with the bolt (2), the segments (22) having tapering surfaces thereon, a primary ring member (16) movable axially relative to the segments (22) and having a corresponding tapering surface (18) thereon, first resilient means (20) biasing the tapering surface (18) of the primary ring member (16) into engagement with the tapering surfaces on said segments (22), and cam means (26) actuation of which moves the primary ring member (16) from a rest position to an axially displaced position against the bias of the first resilient means (20) whereby the segments (22) are moved by associated second resilient means (24) between their operative and inoperative positions.			