



- (51) International Patent Classification:
F16B 31/02 (2006.01)
- (21) International Application Number:
PCT/GB2014/050018
- (22) International Filing Date:
6 January 2014 (06.01.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1300093.0 4 January 2013 (04.01.2013) GB
- (71) Applicant: **FASTENERS SOLUTIONS LIMITED**
[GB/GB]; 19/21 New Road, Willenhall, West Midlands
WV13 2BG (GB).
- (72) Inventor: **CENEY, Stanley**; Livingstone, 27 Cannon
Road, Wombourne, South Staffs WV5 9HR (GB).
- (74) Agent: **BARKER BRETTELL LLP**; 100 Hagley Road,
Edgbaston, Birmingham, West Midlands B16 8QQ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, 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, KM, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AN IMPROVED LOAD-INDICATING DEVICE

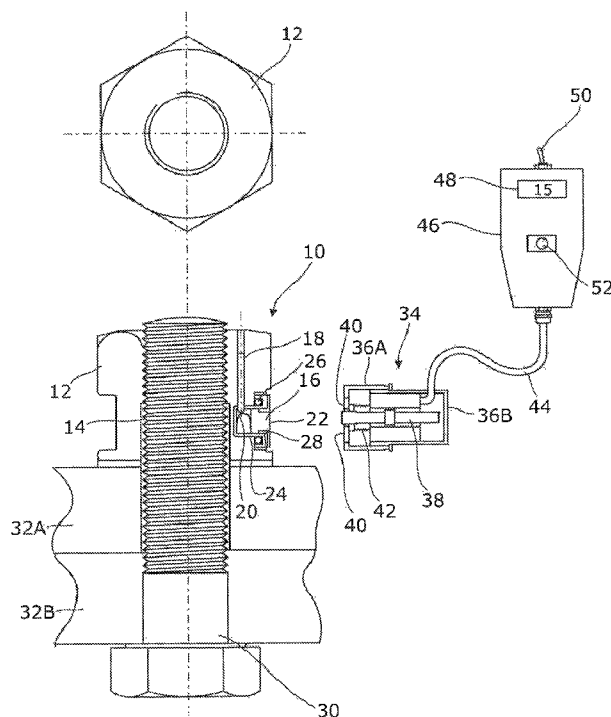


Figure 1

(57) Abstract: The present invention provides improved load-indicating devices for use with structural assemblies that require accurate tensioning of fastening components such as nuts and bolts. In one embodiment, the load-indicating device comprises a body portion defining a bore extending therethrough, a movable member disposed in at least part of the body portion and configured to move in a direction substantially orthogonal to the axis of the bore, and an adjustment means coupled to the movable member and operable to displace the movable member when the body portion is compressed.



Published:

- *without international search report and to be republished
upon receipt of that report (Rule 48.2(g))*