



(43) International Publication Date
27 September 2012 (27.09.2012)

(51) International Patent Classification:

E04D 13/12 (2006.01) *F16B* 13/08 (2006.01)
E04G 21/32 (2006.01)

(21) International Application Number:

PCT/EP2012/054275

(22) International Filing Date:

12 March 2012 (12.03.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1104974.9 24 March 2011 (24.03.2011) GB

(71) Applicant (for all designated States except US): **UNIL-INE SAFETY SYSTEMS LIMITED** [GB/GB]; 5a Merse Road, North Moons Moat, Redditch Worcestershire B98 9HL (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LUKE, Simon** [GB/GB]; 4 Greytrees Crescent, Dorridge, Solihull West Midlands B93 8SL (GB).

(74) Agent: **JACKSON, Derek Charles**; Derek Jackson Associates, The Old Yard, Lower Town, Claines, Worcester Worcestershire WR3 7RY (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, 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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, MD, 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,

[Continued on next page]

(54) Title: FASTENING ARRANGEMENT

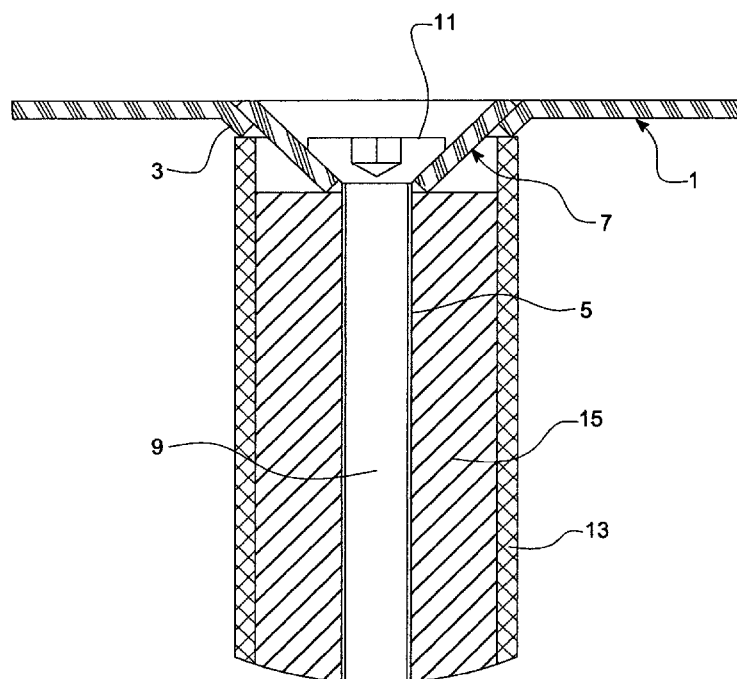


FIG. 1

(57) Abstract: A fastening arrangement includes a threaded fastener (5) including a head (11), a shank (9) and a laterally expandable member (17). A bridging member (7) is provided on the shank of the fastener, the bridging member having an aperture through which the shank passes. The aperture has a dimension greater than the dimension of the shank (9) but less than the dimension of the head (11), and an outer dimension greater than a dimension of the laterally expandable member (17) in a first configuration but less than the dimension of the laterally expandable member in a second configuration.



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG). **Published:**

— *with international search report (Art. 21(3))*