

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 August 2006 (10.08.2006)

PCT

(10) International Publication Number
WO 2006/083229 A1

(51) International Patent Classification:

F16B 23/00 (2006.01) **B21K 1/48** (2006.01)
B25B 23/10 (2006.01) **B21K 1/46** (2006.01)

(21) International Application Number:

PCT/SG2005/000236

(22) International Filing Date: 15 July 2005 (15.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

200500638-2 2 February 2005 (02.02.2005) SG

(71) Applicant (for all designated States except US): **SPURWAY COOKE INDUSTRIES PTE LTD** [SG/SG]; 2 Joo Koon Road, Jurong, Singapore 628966 (SG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LIM, Kim, Sung** [SG/SG]; c/o 2, Joo Koon Road, Jurong, Singapore 628966 (SG).

(74) Agent: **LAWRENCE Y D HO & ASSOCIATES PTE LTD**; 30 Bideford Road, #07-01 Thongsia Building, Singapore 229922 (SG).

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

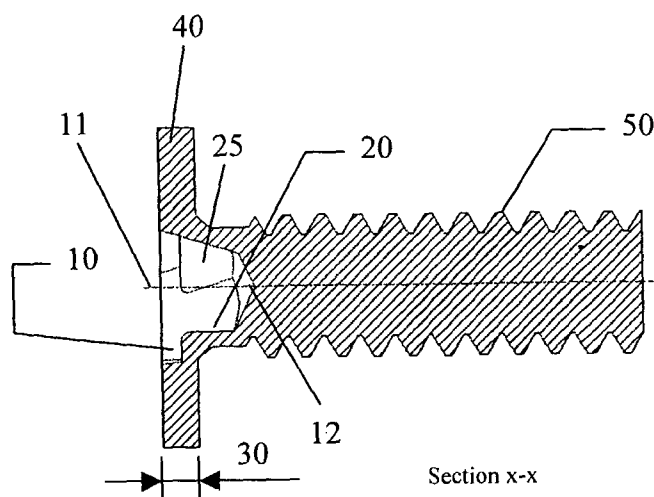
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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: FASTENER



(57) Abstract: A fastener comprising a thin driving head (40) and a threaded shank (50), wherein head (40) includes recess (25) having a top portion (11) and a bottom portion (12) for receiving the tip of a driver. Recess (25) further comprises an abutment or step (10) extending from bottom portion (12) of recess (25) with abutment (10) running along the periphery of recess (25). Preferably recess (25) has tapering walls and is triangular in configuration with an abutment (10) located in at each corner. The fastener may be a miniature screw for use in electrical or electronic appliances such as computers and mobile phones.

WO 2006/083229 A1