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(21) International Application Number: PCT/IL98/00236 (22) International Filing Date: 25 May 1998 (25.05.98) (30) Priority Data: 120948 29 May 1997 (29.05.97) IL (71) Applicant (for all designated States except US): ISCAR LTD. [IL/IL]; P.O. Box 11, 24959 Migdal Tefen (IL). (72) Inventor; and (75) Inventor/Applicant (for US only): HECHT, Gil [IL/IL]; Degania Street 6, 38260 Hadera (IL). (74) Agent: REINHOLD COHN AND PARTNERS; P.O. Box 4060, 61040 Tel Aviv (IL).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, 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, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, 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, ML, MR, NE, SN, TD, TG). Published With international search report.

A cutting tool assembly (1, 101) for rotary cutting operations comprising a replaceable cutting head (2, 102) and a tool shank (4, 104) having a common longitudinal axis (6, 106) and mating peripheral surfaces (16, 43, 120). The cutting head has a cutting head mounting portion (14, 114) at a trailing end (15, 130) thereof and the tool shank has a cutting head receiving portion (44, 144) at a front face thereof. The cutting head mounting portion (14, 114) and the cutting head receiving portion (44, 144) of the tool shank each have at least two coupling portions (20, 120) bound by associated peripheral surface of the cutting head (2, 102) and the tool shank (4, 104) and mating in shape and dimensions. Each coupling portion has a base surface (22, 48, 122, 148), a torque transmission wall (26, 52, 126, 152) and a fixation wall (28, 54, 128, 154), the fixation wall of each cutting head coupling portion having an angular extension smaller than a corresponding angular distance between adjacent extremities of the fixation walls of two different tool shank coupling portions.