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| (21) International Application Number: <b>PCT/IL96/00112</b><br>(22) International Filing Date: <b>17 September 1996 (17.09.96)</b><br>(30) Priority Data:<br>115338 18 September 1995 (18.09.95) IL<br>117552 19 March 1996 (19.03.96) IL<br>(71) Applicant (for all designated States except US): <b>ISCAR LTD.</b><br>[IL/IL]; P.O. Box 11, 24959 Midgal Tefen (IL).<br>(72) Inventors; and<br>(75) Inventors/Applicants (for US only): <b>SATRAN, Amir</b> [IL/IL]; 6<br>Moran Street, 24960 Kfar Vradim (IL). <b>MARGULIS, Rafael</b><br>[IL/IL]; 14/20 Jasmin Street, 21940 Karmiel (IL).<br>(74) Agent: <b>KAY, Simon; Reinhold Cohn and Partners, P.O. Box</b><br><b>4060, 61040 Tel Aviv (IL).</b> |           | (81) Designated States: <b>AL, AM, AT, AU, AZ, BB, BG, BR, BY,</b><br><b>CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU,</b><br><b>IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV,</b><br><b>MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,</b><br><b>SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ,</b><br><b>VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian</b><br><b>patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European</b><br><b>patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT,</b><br><b>LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI,</b><br><b>CM, GA, GN, ML, MR, NE, SN, TD, TG).</b><br><br><b>Published</b><br><i>With international search report.</i> |

(54) Title: **MILLING CUTTING INSERT**

(57) Abstract

A milling cutting insert (1, 30, 47, 48) including a substantially prismatic body portion (2, 31) having an upper surface (3, 32), a lower surface (4, 33), side surfaces (5, 7-9, 34) and at least one protruding nose-like cutting corner (10A, 37A) having a rake surface (15, 40) merging with the upper surface and a wraparound relief flank surface (16, 41) having portions merging respectively with adjacent side surface meeting at the cutting corner (20, 44), front (17, 38) and side cutting edges (19, 39) formed by the intersection between the rake surface (15, 40) and the wraparound relief flank surface (16, 41), the cutting edges protruding outwardly relative to their respective side surfaces and being elevated relative to the upper surface with at least the side cutting edge (19, 39) sloping towards the lower surface.

