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(21) International Application Number: PCT/SE98/00344 (22) International Filing Date: 25 February 1998 (25.02.98) (30) Priority Data: 9700709-0 27 February 1997 (27.02.97) SE (71) Applicant (for all designated States except US): CEL-SIUSTECH SYSTEMS AB [SE/SE]; Nettovägen 6, S-175 88 Järfälla (SE). (72) Inventor; and (75) Inventor/Applicant (for US only): EGNELL, Henrik [SE/SE]; Brodyrvägen 9, S-757 57 Uppsala (SE). (74) Agents: SVANFELDT, Hans-Åke et al.; Dr. Ludwig Brann Patentbyrå AB, P.O. Box 1344, S-751 43 Uppsala (SE).		(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, 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 <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> 990 3436-5
(54) Title: MULTI TARGET TRACKING INITIATION WITH PASSIVE ANGLE MEASUREMENTS (57) Abstract The present invention is in general related to tracking of multiple targets by means of measurements by various sensors. In particular the invention provides procedures for track initiation during multiple target tracking by means of measurements from passive sensors. The invention defines a quality measure for each tentative new target, by which the tentative targets are sorted and selected. The calculation of the parameters of possible targets and their covariance are preferably performed in a recursive manner. The track initiation comprises the steps of creating strobe tracks, calculating strobe track crosses, selecting a strobe track cross as a probable target and creating a target track. <pre> graph TD START([START]) --> 11[Creating strobe tracks for each sensor] 11 --> 12[Calculating strobe track crosses] 12 --> 13[Selecting a cross as a prob. target] 13 --> 14[Creating a target track] 14 --> STOP([STOP]) </pre>		