



(43) International Publication Date  
7 September 2012 (07.09.2012)

- (51) International Patent Classification:  
*G06F 19/00* (2011.01)
- (21) International Application Number:  
PCT/IL2012/000087
- (22) International Filing Date:  
22 February 2012 (22.02.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
13/036,726 28 February 2011 (28.02.2011) US
- (71) Applicant (for all designated States except US): **SOLID-CAM LTD.** [IL/IL]; 33 Kaplan Street, 60305 Or Yehuda (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BERMAN, Michael** [IL/IL]; 9 Hadekalim Avenue, 40300 Kfar Yona (IL). **OS-OVLANSKI, Doron** [IL/IL]; 16 Yoni Netanyahu Street, 54423 Givat Shmuel (IL). **CALDERONE, Christopher Matthew** [US/US]; 48 Northcourt Lane, Levittown, PA 19054 (US). **CALDERONE, Anthony Joseph** [US/US]; 9301 Sheffield Drive, Yardley, PA 19067 (US).
- (74) Agents: **SANFORD T. COLB & CO.** et al.; P.O. Box 2273, 76122 Rehovot (IL).

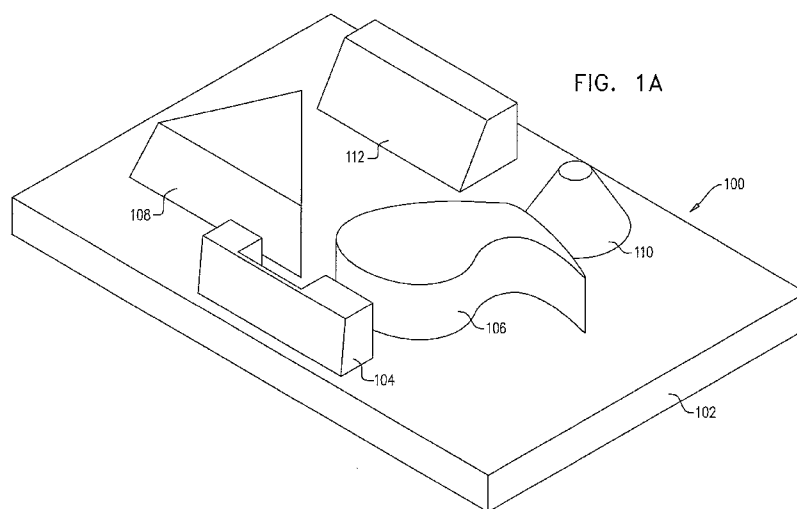
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, 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, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: COMPUTERIZED TOOL PATH GENERATION



(57) Abstract: An automated computer-implemented method for generating commands for controlling a computer numerically controlled machine to fabricate an object from a workpiece, the method including the steps of selecting a maximum permitted engagement angle between a rotating cutting tool and the workpiece, selecting a minimum permitted engagement angle between the rotating cutting tool and the workpiece, and configuring a tool path for the tool relative to the workpiece in which the engagement angle gradually varies between the maximum permitted engagement angle and the minimum permitted engagement angle.