



(51) International Patent Classification:

B24B 19/02 (2006.01)

(21) International Application Number:

PCT/US2014/044744

(22) International Filing Date:

27 June 2014 (27.06.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/841,154

28 June 2013 (28.06.2013)

US

(71) Applicants: SAINT-GOBAIN ABRASIVES, INC.

[US/US]; One New Bond Street, Worcester, Massachusetts 01615 (US). SAINT-GOBAIN ABRASIFS [FR/FR]; Rue de l'Ambassadeur, F-78700 Conflans-Sainte-Honorine (FR).

(72) Inventor: HAGAN, John, S.; 2 Bannister Street, Shrewsbury, Massachusetts 01545 (US).

(74) Agents: SHILLINGER, Ethan, J. et al.; Abel Law Group, LLP, 8911 N. Capital of Texas Hwy, Bldg 4, Suite 4200, Austin, Texas 78759 (US).

(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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, 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, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

[Continued on next page]

(54) Title: METHOD FOR FINISHING COMPLEX SHAPES IN WORKPIECES

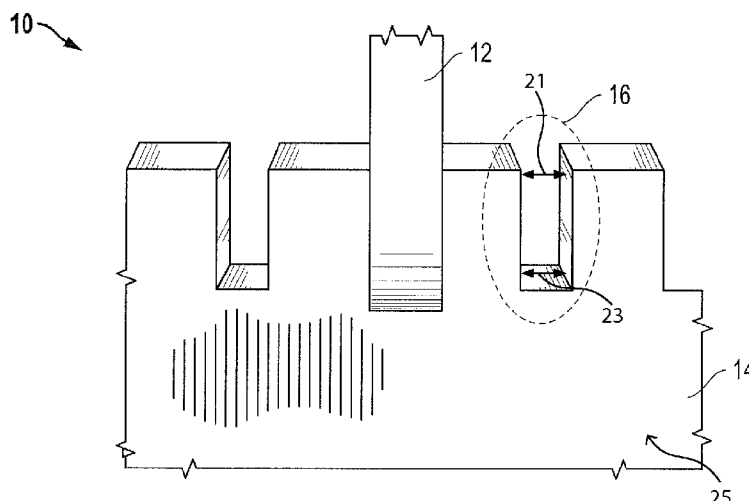


FIG. 1

(57) Abstract: A method of forming a complex form in a workpiece includes moving a grinding tool having a complex shape relative to a surface of a workpiece to form a complex shape opening in the workpiece, and the grinding tool is tilted in a lateral plane relative to the workpiece.



-
- *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))*