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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
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(54) Title: FORMULATIONS FOR COATED DIAMOND ABRASIVE SLURRIES

(57) Abstract: The present invention is directed to an abrasive article and methods of making the abrasive article. An abrasive coating on the abrasive article comprises at least 20% by weight of a superabrasive particle. The abrasive coating is derived from an abrasive slurry. The abrasive slurry may comprise and a dispersant having an AV wherein $AV = 1000 * [(Amine\ Value) / (Mw)]$. The dispersant comprises a polymer having a molecular weight (Mw) of greater than 500g/mol and an AV of greater than 4.5, a polymer having a molecular weight (Mw) of greater than 10,000g/mol and an AV of greater than 1.0, or a polymer having a molecular weight (Mw) of greater than 100,000g/mol and an AV of greater than 0.



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