PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H01L 21/00, B44C 1/22, C09G 1/00 — A1

(11) International Publication Number: WO 99/05706

(43) International Publication Date: 4 February 1999 (04.02.99)

(21) International Application Number: PCT/US98/15572

(22) International Filing Date: 27 July 1998 (27.07.98)

(30) Priority Data:

| | | |
|---|---|---|
| 08/901,803 | 28 July 1997 (28.07.97) | US |
| 09/086,659 | 29 May 1998 (29.05.98) | US |

(71) Applicant: CABOT CORPORATION [US/US]; 75 State Street, Boston, MA 02109–1806 (US).

(72) Inventors: GRUMBINE, Steven, K.; 3144 Portland Court, Aurora, IL 60504 (US). STREINZ, Christopher, C.; 3236 Bremerton Court, Aurora, IL 60504 (US). HOGLUND, Eric, W., G.; 450 Shagbark Court, Algonquin, IL 60102 (US).

(74) Agent: LANDO, Michelle, B.; Cabot Corporation, 157 Concord Road, P.O. Box 7001, Billerica, MA 01821–7001 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, 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, 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, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
*With international search report.*

(54) Title: A POLISHING COMPOSITION INCLUDING AN INHIBITOR OF TUNGSTEN ETCHING

(57) Abstract

A chemical mechanical polishing composition and slurry comprising a composition capable of etching tungsten and at least one inhibitor of tungsten etching and methods for using the composition and slurry to polish tungsten containing substrates.