A1/04 PCT

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 August 2004 (12.08.2004)

PCT

(10) International Publication Number
WO 2004/068571 A1

(51) International Patent Classification[7]: H01L 21/336, 29/786, 29/423

(21) International Application Number: PCT/US2004/000966

(22) International Filing Date: 15 January 2004 (15.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/348,911 23 January 2003 (23.01.2003) US

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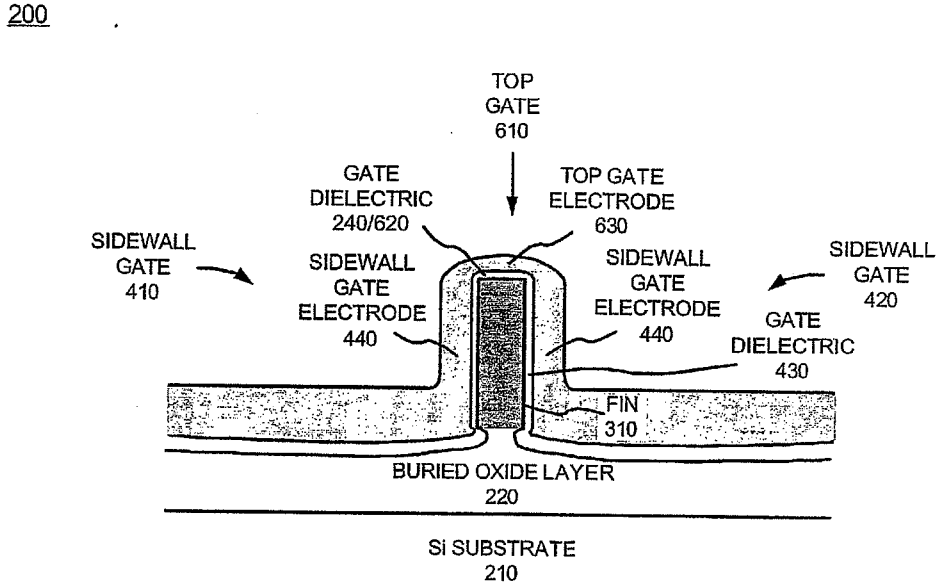
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

[Continued on next page]

(54) Title: TRI-GATE AND GATE AROUND MOSFET DEVICES AND METHODS FOR MAKING SAME



(57) Abstract: A triple gate metal-oxide semiconductor field-effect transistor (MOSFET) (200) includes a fin structure (310), a first gate (410) formed adjacent a first side of the fin structure (310), a second gate (420) formed adjacent a second side of the fin structure (310) opposite the first side, and a top gate (610) formed on top of the fin structure (310). A gate around MOSFET (800) includes multiple fins (1110), a first sidewall gate structure (1010) formed adjacent one of the fins (l 110), a second sidewall gate structure (1020) formed adjacent another one of the fins (1110), a top gate structure (1230) formed on one or more of the fins (1110), and a bottom gate structure (1240) formed under one or more of the fins (1110).

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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