

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 November 2003 (20.11.2003)

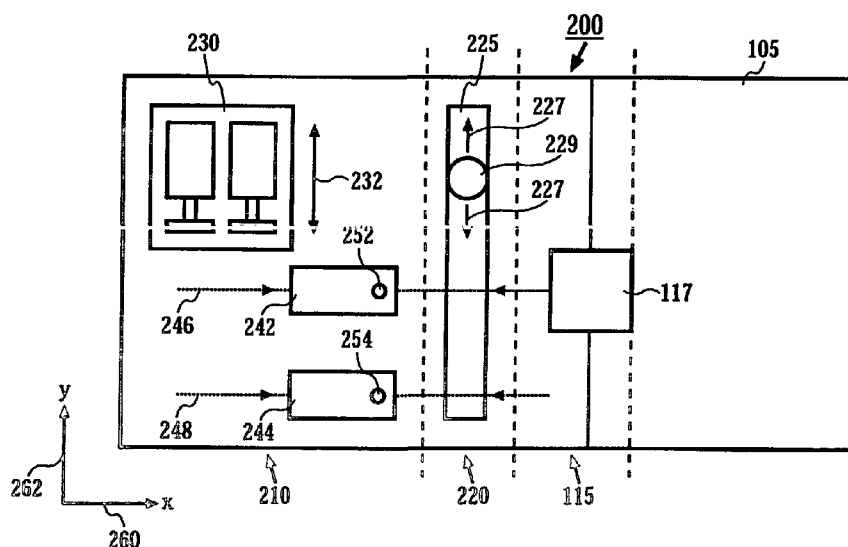
PCT

(10) International Publication Number
WO 03/095169 A1

- (51) International Patent Classification⁷: **B28D 5/00**, (74) Agent: **LAWRENCE Y D HO & ASSOCIATES PTE LTD**; 30 Bideford Road, #07-01, Thongsia Building, Singapore 229922 (SG).
B23D 47/00, H01L 21/00
- (21) International Application Number: PCT/SG03/00069
- (22) International Filing Date: 2 April 2003 (02.04.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/137,996 3 May 2002 (03.05.2002) US
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- (81) Designated States (*national*): 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, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): 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, RO, SE, SI, SK, TR), OAPI patent (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: BI-DIRECTIONAL SINGULATION SAW SYSTEM AND METHOD



(57) Abstract: A sawing system (200) incorporates a vision zone (220) between a loading/ unloading zone (115) and a sawing zone (210). This arrangement allows a dual spindle counter rotating saw assembly (230) to be more rigidly mounted, which reduces the displacement of the saw assembly during the sawing process. This, advantageously reduces the variation in the cut made by the saw blades of the saw assembly to comply with a predetermined required tolerance. In addition, with the vision zone (220) located between the loading/ unloading zone (115) and the sawing zone (210), a semiconductor wafer or substrate is transported from the loading/ unloading zone (115) to the vision zone (220) without passing the sawing zone (210). Consequently, exposure of a semiconductor wafer or substrate to water or debris from the sawing process is avoided, and imaging can be performed at the vision zone (220) without water or debris adversely affecting the imaging.



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