

(19) World Intellectual Property
Organization
International Bureau



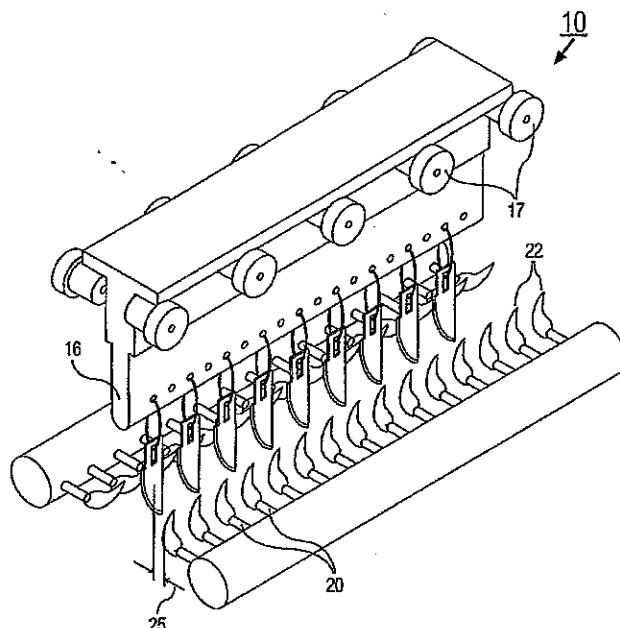
(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/103417 A1

- (51) International Patent Classification⁷: A61L 2/02, F23D 14/20
- (21) International Application Number: PCT/SG2003/000122
- (22) International Filing Date: 22 May 2003 (22.05.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): NTU VENTURES PRIVATE LIMITED [SG/SG]; Nanyang Avenue, Singapore 639798 (SG).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): LIANG, David, Tee [CA/SG]; Blk 3 Pandan Valley #03-314, Singapore 597627 (SG). TAY, Joo Hwa [SG/SG]; Block F Nanyang Drive, Hall of Residence 6, Singapore 639798 (SG). LIM, Tuti Mariana [ID/SG]; Blk 88 Commonwealth Close #09-13, Singapore 140088 (SG). LI, Dong Fei [SG/SG]; Blk 56 Strathmore Avenue #05-123, Singapore 140056 (SG).
- (74) Agent: LAWRENCE Y D HO & ASSOCIATES PTE LTD; 30 Bideford Road, #07-01 Thongsia Building, Singapore 229922 (SG).
- (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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, 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
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR STERILIZING MEDICAL AND LABORATORY INSTRUMENTS AND DEVICES



(57) Abstract: A method for sterilizing medical devices, comprising the steps: producing a plurality of hydrogen surface-mixed diffusion flame; exposing the plurality of hydrogen surface-mixed diffusion flame to the medical devices for a predetermined period of time; and exposing the medical devices to the plurality of hydrogen surface-mixed diffusion flame at a predetermined distance; wherein the hydrogen surface mixed diffusion flame further produces free radicals for further sterilizing of the medical devices.

WO 2004/103417 A1