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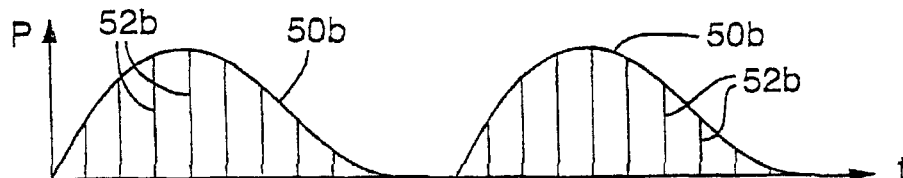
(43) International Publication Date
19 July 2001 (19.07.2001)

PCT

(10) International Publication Number
WO 01/51243 A3

- (51) International Patent Classification⁷: **H01L 21/768**
- (21) International Application Number: PCT/US01/00711
- (22) International Filing Date: 9 January 2001 (09.01.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/175,337 10 January 2000 (10.01.2000) US
60/223,533 4 August 2000 (04.08.2000) 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, CR, CU, CZ, DE, DK, DM, DZ, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
13 December 2001
- 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: LASER SYSTEM AND METHOD FOR PROCESSING A MEMORY LINK WITH A BURST OF LASER PULSES HAVING ULTRASHORT PULSEWIDTHS



(57) Abstract: A burst of ultrashort laser pulses is employed to sever a conductive link (22) in a nonthermal manner and offers a wider processing window, eliminates undesirable HAZ effects, and achieves superior severed link quality. The duration of the burst is preferably in the range of 10 ns to 500 ns; and the pulse width of each laser pulse within the burst is generally shorter than 25 ps, preferably shorter than or equal to 10 ps, and most preferably about 10 ps to 100 fs or shorter. The burst can be treated as a single "pulse" by conventional laser positioning systems (62) to perform on-the-fly link removal without stopping whenever the laser system (60) fires a burst of laser pulses at each link (22). Conventional wavelengths or their harmonics can be employed.

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