

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
1 May 2003 (01.05.2003)

PCT

(10) International Publication Number  
**WO 03/036736 A2**

(51) International Patent Classification<sup>7</sup>: **H01L 45/00**

(21) International Application Number: PCT/US02/34558

(22) International Filing Date: 28 October 2002 (28.10.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/339,604 26 October 2001 (26.10.2001) US

(71) Applicant (for all designated States except US): **AXON TECHNOLOGIES CORP.** [US/US]; 7702 East Doubletree Ranch Road, Suite 300, Scottsdale, AZ 85258 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **KOZICKI, Michael, N.** [US/US]; 4624 South 23rd Street, Phoenix, AZ 85048 (US).

(74) Agent: **ZEMAN, Laura, J.**; Snell & Wilmer, L.L.P., 400 East Van Buren, One Arizona Center, Phoenix, AZ 85004-2202 (US).

(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, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

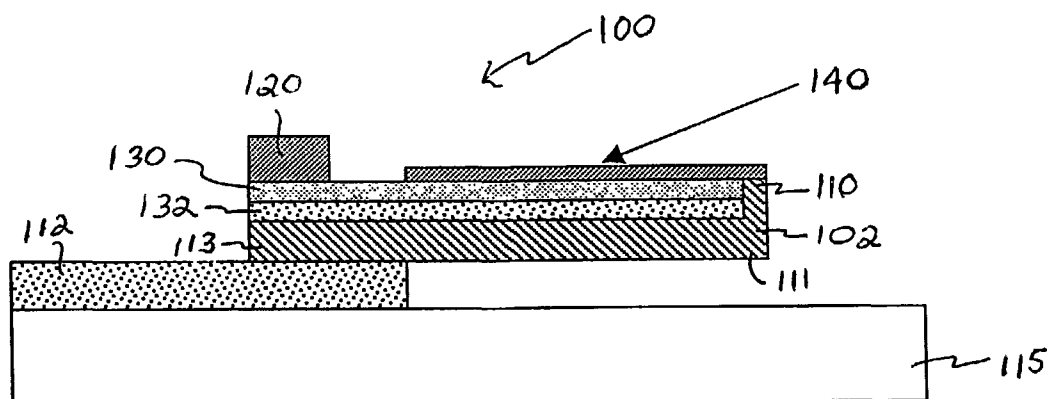
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,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

Published:

— without international search report and to be republished upon receipt of that 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: TUNABLE CANTILEVER APPARATUS AND METHOD FOR MAKING SAME



(57) Abstract: Mass distribution within programmable surface control devices is controlled by the presence or absence of an electrodeposition of metal and/or metal ions from a solid solution upon application of a suitable electric field. One such programmable surface control device includes a tunable cantilever assembly whose resonant frequency is changed by depositing and dissolving an electrodeposit on a surface of the assembly using an electric field.



WO 03/036736 A2