

1710/02
2002062917

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

(19) World Intellectual Property Organization
International Bureau



162162

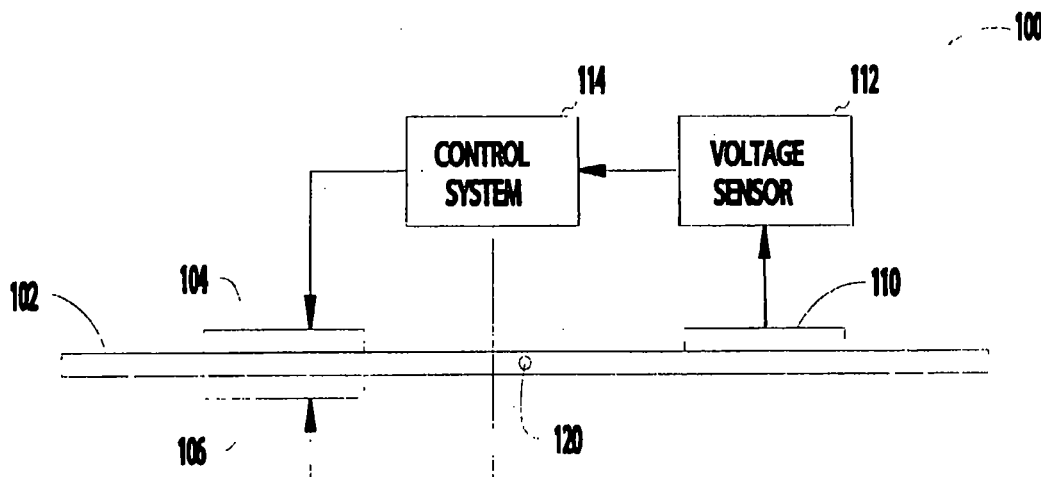
(43) International Publication Date
8 November 2001 (08.11.2001)

PCT

(10) International Publication Number
WO 01/84893 A1

- (51) International Patent Classification⁷: **H05K 1/02**, F16F 15/00
- (21) International Application Number: PCT/US01/10918
- (22) International Filing Date: 3 April 2001 (03.04.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/563,378 3 May 2000 (03.05.2000) 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
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- 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: CIRCUIT CARD ASSEMBLY HAVING CONTROLLED VIBRATIONAL PROPERTIES



(57) Abstract: Piezoelectric wafers (104, 106) are affixed to a circuit card (102) to control displacement of the circuit card (102) when vibrated. A trigger wafer (110) located at an anti-node of the dominant mode shape produces a voltage as a function of modal displacement. A control system (114) responsive to the trigger wafer (110) produces voltages that are applied to flex wafers (104, 106) at a different anti-node of the dominant mode shape. The flex wafers (104, 106) expand and contract in a manner that reduces the modal displacement of the circuit card (102). Multiple flex wafers (104, 106) can exist, affixed to the circuit card (102) substantially opposite each other, or a single flex wafer (104) can exist with a single trigger wafer (110). The trigger wafer can be located substantially opposite the flex wafer or can be located elsewhere on the circuit card.

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