



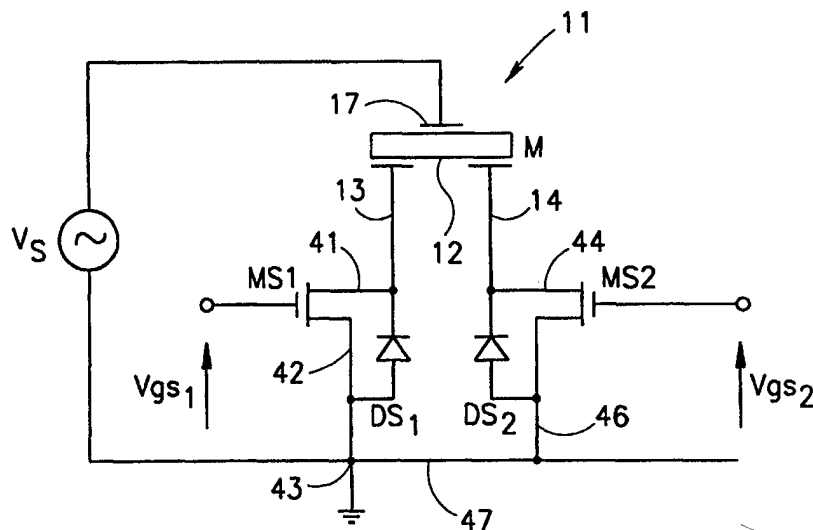
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<p>(21) International Application Number: PCT/IL98/00519 (22) International Filing Date: 25 October 1998 (25.10.98) (71) Applicant (for all designated States except US): NANOMOTION LTD. [IL/IL]; P.O. Box 223, 20692 Yoqne'am (IL). (72) Inventor; and (75) Inventor/Applicant (for US only): BEN-YAAKOV, Shmuel [IL/IL]; Reuven Hecht Street 57, 84236 Beer-Sheva (IL). (74) Agents: FENSTER, Paul et al.; Fenster & Company Patent Attorneys, Ltd, P.O. Box 10256, Petach Tikva 49002 (IL).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report.</p>

(54) Title: DRIVER FOR PIEZOELECTRIC MOTORS



(57) Abstract

A micromotor comprising: a piezoelectric element including a common electrode and a plurality of other electrodes formed thereon and including at least a first and a second electrode group, each group including at least one electrode, wherein the piezoelectric element causes motion in a first direction when a voltage is applied between the first electrode group and the common electrode, and wherein the piezoelectric element causes motion in a second direction when a voltage is applied between the second electrode group and the common electrode; a voltage source that electrifies the common electrode; and at least two switches separately connected between the first and second electrode groups and a low voltage, said switches being activatable to connect one of said first and second electrode groups to the low voltage to cause selective motion in the first or second directions.