9904101.4
IPOS's
copy

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H01L 41/09	A1	(11) International Publication Number: WO 98/40917
		(43) International Publication Date: 17 September 1998 (17.09.98)

(21) International Application Number: PCT/GB98/00670

(22) International Filing Date: 6 March 1998 (06.03.98)

(30) Priority Data:
9704769.0 7 March 1997 (07.03.97) GB

(71) Applicant *(for all designated States except US)*: GREENBROOK ELECTRICAL PLC [GB/GB]; Temple Fields, Harlow, Essex CM20 2BG (GB).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: POWELL, Simon [GB/GB]; 8 Merchants Walk, Baldock, Hertfordshire SG7 6TJ (GB).

(74) Agent: CRAWFORD, Andrew, Birkby; A.A. Thornton & Co., Northumberland House, 303–306 High Holborn, London WC1V 7LE (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, 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, TJ, TM, TR, TT, UA, UG, US, UZ, VN, 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, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: LOW COMPONENT COUNT RELEASE MECHANISM

(57) Abstract

An electrically controlled actuator comprises at least two co–planar blades formed by a U–shaped pressing from a sheet of material. The end of one blade (60) is used as a mounting for the actuator and the end of the other blade (85) is used as an actuation surface. Piezo ceramic material is fixed to opposite surface of the two blades in order to flex the actuation surface with respect to the fixed surface. An electrically relay or residual current device incorporating such an actuator is disclosed.