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[Continued on next page]

(54) Title: SELF-ALIGNING TERMINATION FOR MEMORY ALLOY WIRE

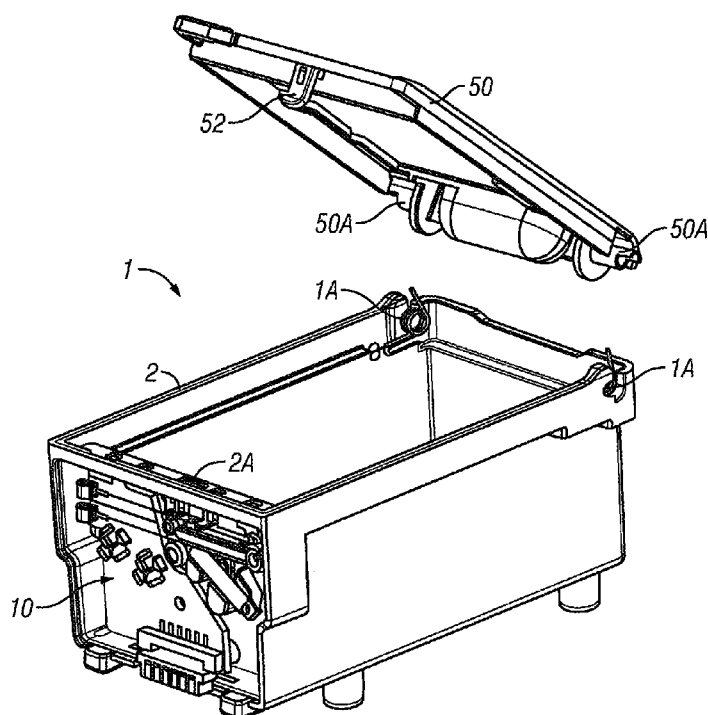


FIG. 1

(57) Abstract: A self-aligning memory alloy wire actuator has a memory alloy wire having first and second ends with at least one terminal coupled to one end of the memory alloy wire. The terminal includes two wings and an extended piece connected in the shape of a T. The two wings are disposed on opposite sides of the extended piece and perpendicular to the extended piece. Each wing comprises top and bottom surfaces, a front surface, and an outside end. The top surfaces of the two wings lie on a common top plane and the front surfaces of the two wings lie on a common front plane. The memory alloy wire is coupled to the extended piece of the terminal.



HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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PCT/US2012/022245**A. CLASSIFICATION OF SUBJECT MATTER****A47F 1/00(2006.01)i, G07F 11/00(2006.01)i, G06F 17/00(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A47F 1/00; G06F 7/00; G07F 11/00; G06F 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: , "wire, actuator, latch, muscle wire, alloy wire, dispensing machine" ,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6116461 A (BROADFIELD, LAIRD et al.) 12 September 2000 See All Claims; abstract	1-20
A	US 6338007 B1 (BROADFIELD, LAIRD et al.) 08 January 2002 See All Claims; abstract	1-20
A	US 2004-0111179 A1 (BROADFIELD, LAIRD et al.) 10 June 2004 See All Claims; abstract	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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