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(72) Inventors: **PRAHLAD, Harsha**; 799 Stendhal Lane, Cupertino, CA 95014 (US). **PELRINE, Ronald, E.**; 809 In-correctible Circle, Longmont, CO 80504 (US). **MCCOY, Brian, K.**; 902 Suntree Court, Sunnyvale, CA 94086 (US).

[Continued on next page]

(54) Title: ELECTROADHESIVE HANDLING AND MANIPULATION

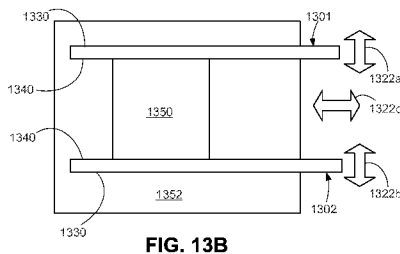


FIG. 13B

(57) Abstract: An electroadhesive gripping system includes a shear gripper. The shear gripper can include an electroadhesive surface (1340) associated with one or more electrodes and a load-bearing structure (1330) coupled to the electroadhesive surface. A power supply can be configured to apply voltage to the one or more electrodes associated with the electroadhesive surface. A controller can be configured to cause a voltage to be applied, via the power supply, to the one or more electrodes associated with the electroadhesive surface to thereby cause the first shear gripper to adhere to an item (1350) situated proximate the electroadhesive surface. The controller can be configured to cause a shear force to be applied to the adhered item, via the load-bearing structure, that is sufficient to move the adhered item.

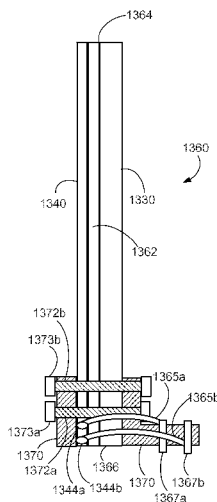


FIG. 13D

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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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ADD.
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)
B25J H02N

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2011/193362 A1 (PRAHLAD HARSHA [US] ET AL PRAHLAD HARSHA E [US] ET AL) 11 August 2011 (2011-08-11) paragraph [0095] - paragraph [0097] figures 8-10 -----	1-6,9, 13-16, 18,19,21 7,8, 10-12, 17,20

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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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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