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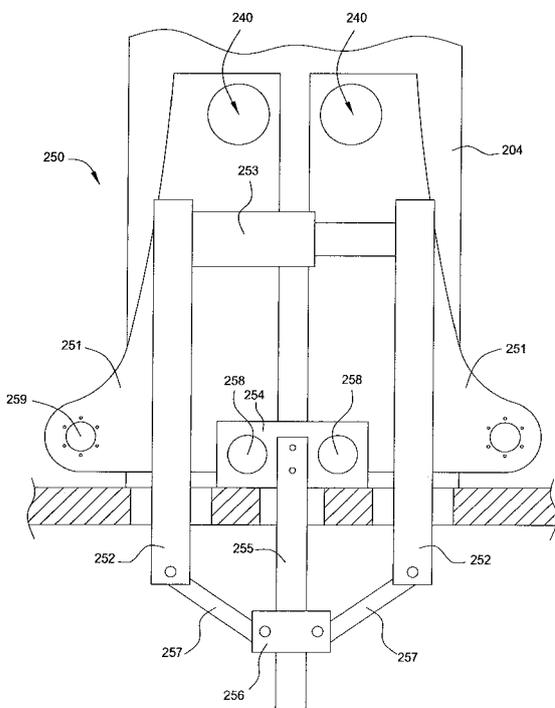
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(54) Title: BRUSH BOX CLEANER WITH FORCE CONTROL

FIG. 5A



(57) Abstract: Embodiments of the present invention relates to an apparatus and method for cleaning a substrate using scrubber brushes. One embodiment of the present invention provides a substrate cleaner comprises two scrubber brush assemblies movably disposed in a processing volume. The two scrubber brush assemblies are configured to contact and clean opposite surfaces of a substrate disposed in the processing volume. The substrate cleaner also comprises a positioning assembly configured to simultaneously adjust positions of the two scrubber brush assemblies, wherein the positioning assembly makes substantially the same amount of adjustment to the first and second scrubber brush assemblies in mirror symmetry.

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A. CLASSIFICATION OF SUBJECT MATTER***H01L 21/304(2006.01)i***

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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

eKOMPASS(KIPO internal) & Keywords:"brush","roller","clean"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005-044474 A1 (APPLIED MATERIALS, INC.) 19 May 2005 See abstract and figures 1A,1B,2.	1, 11, 12
A	JP 11-026419 A (YAMAHA CORP) 29 January 1999 See abstract and figures 1-6.	1-15
A	JP 2006-196636 A (ELPIDA MEMORY INC) 27 July 2006 See claims 1-4 and figure 1.	1-15
A	JP 10-321571 A (ZETETSUKU KK) 04 December 1998 See the whole document.	1-15

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

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