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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR HYBRIDIZATION SLIDE PROCESSING

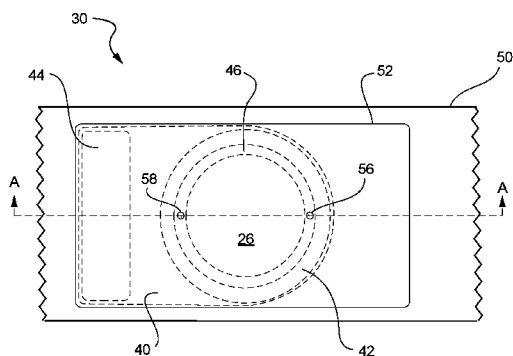


FIG. 1A

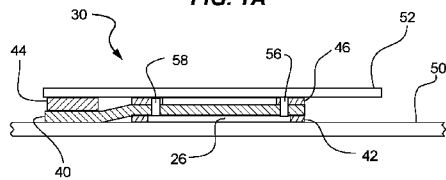


FIG. 1B

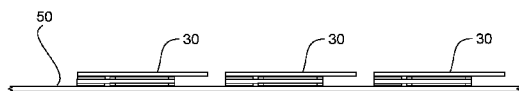


FIG. 1C

(57) Abstract: A system 300 for the substantially-automated hybridization of a plurality of microarray slides. The system comprises an enclosure 310 with a wash basin 312 having an open top end, a lower carrier rotor 330 disposed within the wash basin on a support axle 318 for receiving a plurality of microarray slide substrates 362, and an upper clamp rotor 340 disposed above the lower carrier rotor on the support axle for receiving a plurality of disposable chamber assemblies 240. The system is further configured so that lowering the upper clamp rotor to engage with the lower carrier rotor couples the plurality of chamber assemblies to the plurality of slide substrates to form a plurality of sealed reaction chambers 244, and raising the upper clamp rotor to disengage from the lower carrier rotor de-couples the plurality of chamber assemblies from the plurality of slide substrates to unseal the plurality of reaction chambers.





ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR),
OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
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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)

IPC G01N 35/02, G01N 33/50

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: reaction chamber, slide, seal, attachment, patch

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 05518925 A (TADEUSZ A. TYNDORF et al.) 21 MAY 1996 See column 2, line 57 - column 4, line 34; Figures. 1-6.	1-6
A	US 2006-0153736 A1 (KRISHAN L. KALRA et al.) 13 JULY 2006 See paragraph [23] - paragraph [37]; Figures. 1A-5B.	1-6
A	US 2006-0073074 A1 (LARS WINTHER) 6 APRIL 2006 See abstract, claims 1-4; Figures. 10-13, 15.	7-30
A	US 05650327 A1 (KEITH G. COPELAND et al.) 22 JULY 1997 See column 6, line 22 - column 9, line 35; Figures. 1-11.	7-30



Further documents are listed in the continuation of Box C.



See patent family annex.

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