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CHINES CORPORATION [US/US]; New Orchard
Road, Armonk, NY 10504 (US).(71) Applicants (*for MG only*): IBM (CHINA) INVEST-
MENT COMPANY LTD. [CN/CN]; 25/F, Pangu Plaza,
No. 27, Central North 4th Ring Road, Chaoyang District,
Beijing 100101 (CN). IBM RESEARCH GMBH
[CH/CH]; IBM Research - Zurich, Säeumerstrasse 4, CH-
8803 Rüschlikon (CH).(72) Inventors: DUERIG, Urs T.; IBM Research GmbH, IBM
Research - Zurich, Säeumerstrasse 4, CH-8803 Rüsch-
likon (CH). HOLZNER, Felix; IBM Research GmbH,
IBM Research - Zurich, Säeumerstrasse 4, CH-8803
Rüschlikon (CH). KNOLL, Armin W.; IBM Research
GmbH, IBM Research - Zurich, Säeumerstrasse 4, CH-
8803 Rüschlikon (CH). RIESS, Walter Heinrich; IBMResearch GmbH, IBM Research - Zurich, Säeumerstrasse
4, CH-8803 Rüschlikon (CH).(74) Agents: RAGOT, Sébastien et al.; IBM Research GmbH,
IBM Research - Zurich, Intellectual Property Law,
Säeumerstrasse 4, CH-8803 Rüschlikon (CH).(81) Designated States (*unless otherwise indicated, for every
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(54) Title: METHODS AND APPARATUSES FOR POSITIONING NANO-OBJECTS WITH ASPECT RATIOS

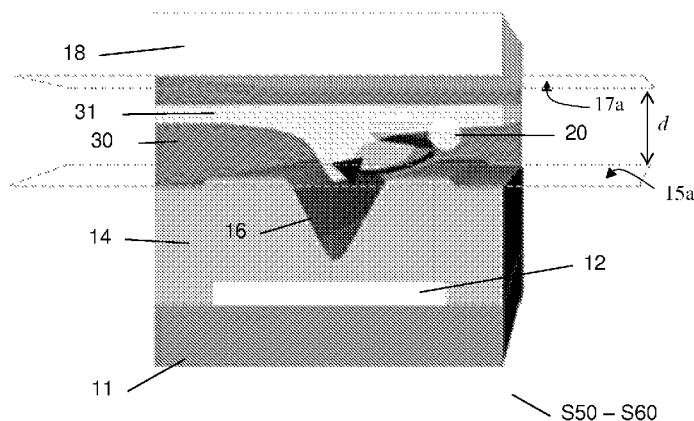


FIG. 3.

(57) Abstract: The present invention is notably directed to apparatuses and methods for positioning nano- objects (20) on a surface. The method comprises: providing (S10 – S50) two surfaces (15, 17) including a first surface (15) and a second surface (17) in vis-à-vis, wherein at least one of the two surfaces exhibits one or more positioning structures (16, 16a) having dimensions on the nano-scale; and a ionic liquid suspension (30) of the nano-objects between the two surfaces, wherein each of the surfaces forms an electrical double layer with the ionic liquid suspension, each of the two surfaces having a same electrical charge sign; and letting (S60) nano-objects in the suspension position according to a potential energy (31) resulting from the electrical charge of the two surfaces and depositing (S70) one or more of the nano-objects on the first surface according to the positioning structures, by shifting minima (32) of the potential energy towards the first surface.



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