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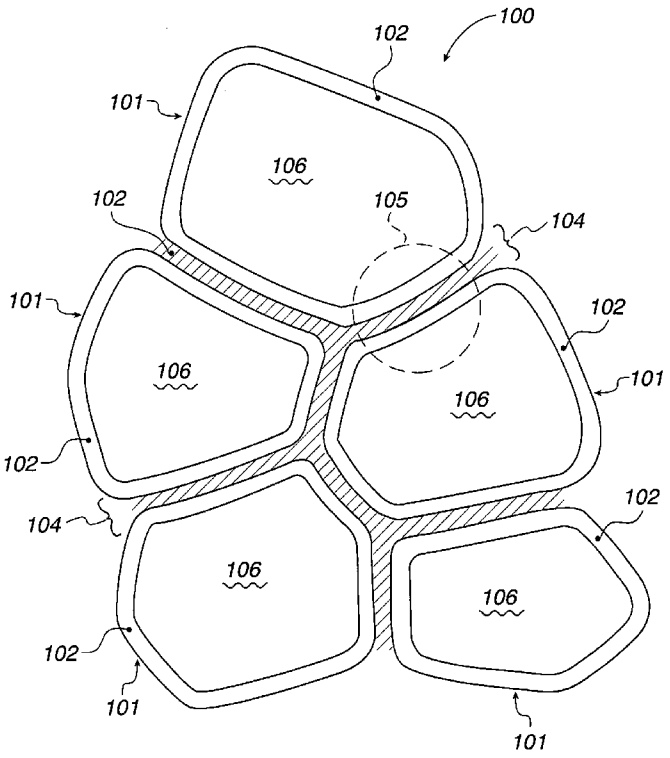
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR REMOVING A RESIDUAL ORGANIC LAYER FROM A SUBSTRATE USING REACTIVE GASES



(57) Abstract: A system and method for removing a layer from a substrate surface is provided. The method includes providing at least one encapsulating transport, where the encapsulating transport contains at least some reactive gas. At least one encapsulating transport is applied to the layer, and the layer is a chemically reactive layer. The encapsulating transport ruptures on the chemically reactive layer and releases the reactive gas in combination with a reaction inducing agent onto the chemically reactive layer to facilitate removal of the layer from the substrate surface. The at least one encapsulating transport is a bubble or a foam.

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
LAM2P422.P		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/US2004/018610	11/06/2004	27/06/2003
Applicant		
LAM RESEARCH CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

[X] It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language,** the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
      [ ] The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
   b. [ ] With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. [ ] **Certain claims were found unsearchable** (See Box II).

3. [ ] **Unity of invention is lacking** (see Box III).

4. V

METHOD AND APPARATUS FOR REMOVING A RESIDUAL ORGANIC LAYER FROM A SUBSTRATE USING REACTIVE GASES

5. With regard to the **abstract,**
   [ ] the text is approved as submitted by the applicant.
   [X] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings,**
   a. the figure of the **drawings** to be published with the abstract is Figure No. 1
      [ ] as suggested by the applicant.
      [ ] as selected by this Authority, because the applicant failed to suggest a figure.
      [X] as selected by this Authority, because this figure better characterizes the invention.
   b. [ ] none of the figures is to be published with the abstract.