LAM RESEARCH CORP.,

Petitioner

Demonstrative Exhibits

Inter Partes Review Case Nos. IPR2015-01764 and 01768

U.S. Patent No. RE40,264E

October 11, 2016

Morgan Chu Samuel Lu

Grounds For Institution IPR2015-01764

On February 24, 2016, the Board instituted this IPR on the following grounds:

- (1) Whether claims 27, 28, 30, 33, 35–39, 42, 43, 45, 46, 49, 51–54, 66, 67, and 69 are unpatentable under 35 U.S.C. § 103(a) as having been obvious over the combined disclosures of Tegal, Matsumura, and Narita; and
- (2) Whether claim 29 is unpatentable under 35 U.S.C. § 103(a) as having been obvious over the combined disclosures of Tegal, Matsumura, Narita, and Ooshio.

Grounds For Institution IPR2015-01768

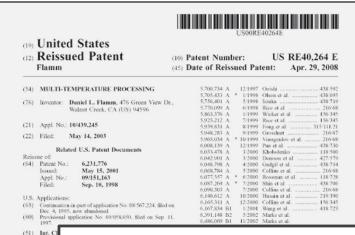
On February 24, 2016, the Board instituted this IPR on the following grounds:

- (1) Whether claims 56–58 are obvious over Tegal, Matsumura, Narita, Thomas, and Wang '485 under 35 U.S.C. § 103(a);
- (2) Whether claims 60, 62, 63, and 71 are obvious over Tegal, Matsumura, Narita, Thomas, and Fischl under 35 U.S.C. § 103(a);
- (3) Whether claims 51, 55, and 68 are obvious over Tegal, Matsumura, Narita, and Thomas under 35 U.S.C. § 103(a);
- (4) Whether claims 56 and 59 are obvious over Tegal, Matsumura, Narita, Wang '391, Thomas, and Wang '485 under 35 U.S.C. § 103(a);
- (5) Whether claim 61 is obvious over Tegal, Matsumura, Narita, Thomas, Fischl, and Ooshio under 35 U.S.C. § 103(a); and
- (6) Whether claim 70 is obvious over Tegal, Matsumura, Narita, Thomas, Fischl, and Hwang under 35 U.S.C. § 103(a).

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The Purported Invention



The technology at issue relates to etching a substrate such as a semiconductor

plasma discharge. One aspect of the present technique relies upon multi-stage etching processes for selectively removing a film on a workpiece using differing temperatures. It

| 1994 | Carman et al. | 219.885 | 23.209.22 A • 6/1994 | Tailcone et al. | 4.28714 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214 | 24.214

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