

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LAM RESEARCH CORP.,

Petitioner

v.

DANIEL L. FLAMM,

Patent Owner

CASE Nos. IPR2015-01764; IPR2015-01767; and IPR2015-01767
U.S. Patent Nos. RE40,264, 6,017,221 AND 5,711,849

**JOINT SUMMARY OF RELATED *INTER PARTES* REVIEWS
AND RELATED LITIGATIONS**

Pursuant to the Board's request dated December 7, 2016, the Patent Owner, Daniel L. Flamm, and the Petitioner, Lam Research Corp. (collectively "the Parties") provide this summary of the related *inter partes* reviews described in the joint motions to terminate IPR2015-01764, IPR2015-01767, and IPR2015-01768 as well as the status of the district court actions listed in the joint motions.

Petitions Directed Toward U.S. Patent No. RE40,264

IPR2015-01759

Petitioner: Lam Research Corp.

Ground	Assertion	Institution Decision
1	Claims 13, 15, 16, 18-21, 64, and 65 are Rendered Obvious by Tegal in View of Matsumura Under 35 U.S.C. §103(a)	Denied
2	Claim 14 is Rendered Obvious by Tegal in View of Matsumura and Thomas Under 35 U.S.C. §103(a)	Denied
3	Claim 17 is Rendered Obvious by Tegal in View of Matsumura and Narita Under 35 U.S.C. §103(a)	Denied
4	Claim 22 is Rendered Obvious by Hwang in View of Tegal and Matsumura Under 35 U.S.C. §103(a)	Denied
5	Claims 23 and 24 are Rendered Obvious by Tegal in View of Matsumura and Collins Under 35 U.S.C. §103(a)	Denied
6	Claims 25 and 26 are Rendered Obvious by Tegal in View of Matsumura and Mahawili Under 35 U.S.C. §103(a)	Denied

Prior Art References:

- European Patent Application No. 90304724.9 (Tegal)
- U.S. Patent No. 5,151,871 (Matsumura)
- U.S. Patent No. 4,913,790 (Narita)
- U.S. Patent No. 4,680,086 (Thomas)
- U.S. Patent No. 5,174,856 (Hwang)
- European Patent Application No. 93309608.3 (Collins)
- U.S. Patent No. 5,059,770 (Mahawili)

IPR2015-01764

Petitioner: Lam Research Corp.

Ground	Assertion	Institution Decision
1	Claims 27, 28, 30, 33, 35-39, 42, 43, 45, 46, 49, 51-54, 66, 67, and 69 are Rendered Obvious by Tegal in View of Matsumura and Narita Under 35 U.S.C. §103(a)	Instituted
2	Claim 29 is Rendered Obvious by Tegal in View of Matsumura , Narita , and Ooshio Under 35 U.S.C. §103(a)	Instituted

Prior Art References:

- European Patent Application No. 90304724.9 (Tegal)
- U.S. Patent No. 5,151,871 (Matsumura)
- U.S. Patent No. 4,913,790 (Narita)
- U.S. Patent No. 4,645,218 (Ooshio)

IPR2015-01766

Petitioner: Lam Research Corp.

Ground	Assertion	Institution Decision
1	Claims 27, 31, and 32 are Rendered Obvious by Hwang in View of Tegal , Matsumura , and Narita Under 35 U.S.C. §103(a)	Denied
2	Claim 34 is Rendered Obvious by Nakamura in View of Tegal , Matsumura , and Narita Under 35 U.S.C. §103(a)	Denied
3	Claims 37, 40, 41, 44, 47, 48, and 50 are Rendered Obvious by Wang in View of Tegal , Matsumura and Narita Under 35 U.S.C. §103(a)	Denied

Prior Art References:

- European Patent Application No. 90304724.9 (Tegal)
- U.S. Patent No. 5,151,871 (Matsumura)
- U.S. Patent No. 4,913,790 (Narita)
- U.S. Patent No. 5,174,856 (Hwang)
- U.S. Patent No. 5,316,616 (Nakamura)

IPR2015-01768

Petitioner: Lam Research Corp.

Ground	Assertion	Institution Decision
1	Claims 56-58 are Rendered Obvious by Tegal, Matsumura, Narita, Thomas, and '485 Wang Under 35 U.S.C. §103(a)	Instituted
2	Claims 60, 62, 63, and 71 are Rendered Obvious by Tegal, Matsumura, Narita, Thomas, and Fischl Under 35 U.S.C. §103(a)	Instituted
3	Claims 51, 55, and 68 are Rendered Obvious by Tegal, Matsumura, Narita, and Thomas Under 35 U.S.C. §103(a)	Instituted
4	Claims 56 and 59 are Rendered Obvious by Tegal, Matsumura, Narita, '391 Wang, Thomas, and '485 Wang Under 35 U.S.C. §103(a)	Instituted
5	Claim 61 is Rendered Obvious by Tegal , in View of Matsumura, Narita, Thomas, Fischl, and Ooshio Under 35 U.S.C. §103(a)	Instituted
6	Claim 70 is Rendered Obvious by Tegal in View of Matsumura, Narita, Thomas, Fischl, and Hwang Under 35 U.S.C. §103(a)	Instituted

Prior Art References:

- European Patent Application No. 90304724.9 (Tegal)
- U.S. Patent No. 5,151,871 (Matsumura)
- U.S. Patent No. 4,913,790 (Narita)
- U.S. Patent No. 4,680,086 (Thomas)
- U.S. Patent No. 5,219,485 ('485 Wang)
- D.S. Fischl, G.W. Rodrigues, and D.W. Hess, *Etching of Tungsten and Tungsten Silicide by Chlorine Atoms* published in August 1998 by the Journal of Electrochemical Society in Vol. 135, No. 8 (Fischl)
- U.S. Patent No. 4,992,391 ('391 Wang)
- U.S. Patent No. 5,174,856 (Hwang)
- U.S. Patent No. 4,645,218 (Ooshio)

IPR2016-0468

Petitioner: Lam Research Corp.

Ground	Assertion	Institution Decision
1	Claims 13-21, 23, 64, and 65 are Rendered Obvious by Kadomura in View of Moslehi Under 35 U.S.C. §103(a)	Denied
2	Claim 22 is Rendered Obvious by Kadomura in View of Moslehi Under 35 U.S.C. §103(a)	Denied
3	Claim 24 is Rendered Obvious by Kadomura in View of Moslehi , and Collins Under 35 U.S.C. §103(a)	Denied
4	Claims 25 and 26 are Rendered Obvious by Kadomura in View of Moslehi , and Mahawili Under 35 U.S.C. §103(a)	Denied

Prior Art References:

- U.S. Patent No. 6,063,710 (Kadomura)
- U.S. Patent No. 5,192,849 (Moslehi)
- European Patent Application No. 93309608.3 (Collins)
- U.S. Patent No. 5,059,770 (Mahawili)

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