

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LAM RESEARCH CORP.,
Petitioner,

v.

DANIEL L. FLAMM,
Patent Owner.

Case IPR2015-01759
Patent RE 40,264 E

Before DONNA M. PRAISS, CHRISTOPHER L. CRUMBLEY, and
JO-ANNE M. KOKOSKI, *Administrative Patent Judges*.

CRUMBLEY, *Administrative Patent Judge*.

DECISION

Denying Institution of *Inter Partes* Review
35 U.S.C. § 314(a) and 37 C.F.R. § 42.108

Tokyo Electron Limited
EXHIBIT 1016
IPR Petition for

I. INTRODUCTION

Lam Research Corporation filed a Petition requesting an *inter partes* review of claims 13–26, 64, and 65 of U.S. Patent No. RE 40,264 E (Ex. 1001, “the ’264 patent”). Paper 1 (“Pet.”). Daniel L. Flamm, the named inventor on the ’264 patent and the Patent Owner, filed a Preliminary Response to the Petition. Paper 6 (“Prelim. Resp.”).

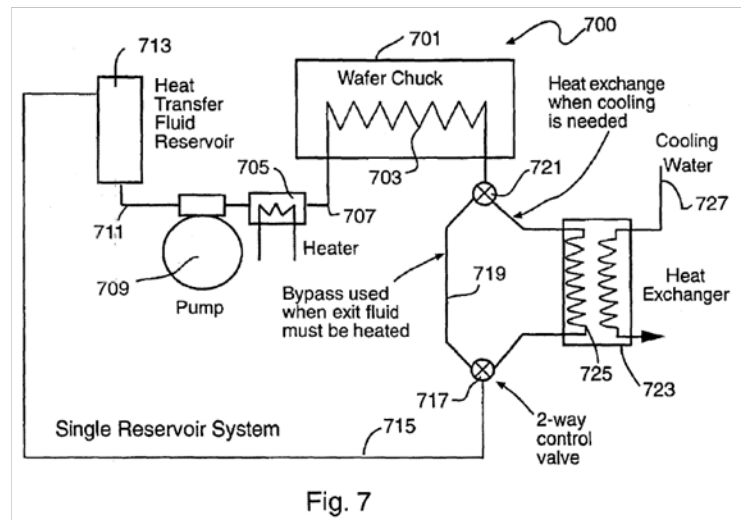
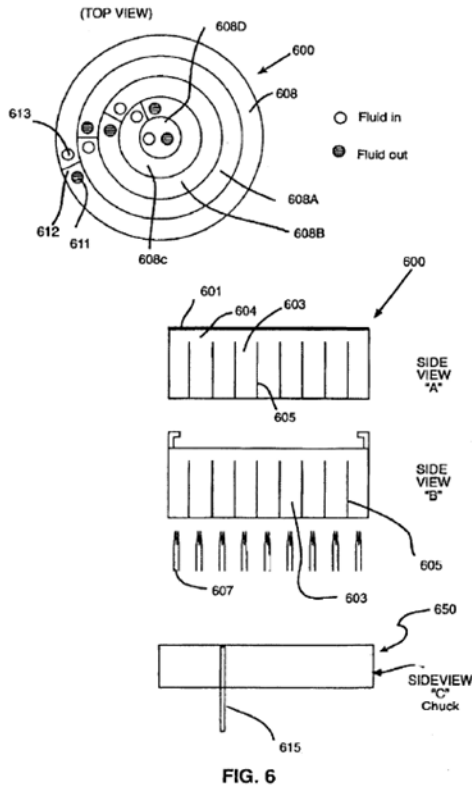
Pursuant to 35 U.S.C. § 314(a), an *inter partes* review may not be instituted unless the information presented in the Petition shows “there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.” Taking into account the arguments presented in Flamm’s Preliminary Response, we conclude that the information presented in the Petition does not establish that there is a reasonable likelihood that Lam will prevail in challenging claims 13–26, 64, and 65 of the ’264 patent as unpatentable. Accordingly, we do not institute trial on those claims.

A. Related Matters

The ’264 patent is the subject of concurrently filed *inter partes* review proceedings IPR2015-01764, IPR2015-01766, and IPR2015-01768.

We are informed that the ’264 patent is presently at issue in a declaratory judgment action captioned *Lam Research Corp. v. Daniel L. Flamm*, Case 5:15-cv-01277-BLF (N.D. Cal.), and in an infringement action captioned *Daniel L. Flamm v. Samsung Electronics Co., Ltd., et al.*, Case 1:15-cv-613 (W.D. Tex.). Pet. 3; Paper 4, 1.

Figures 6 and 7, below, depict a temperature-controlled substrate holder and temperature control systems.



Figures 6 and 7 depict temperature-controlled fluid flowing through substrate holder (600, 701), guided by baffles 605, where “[t]he fluid [is] used to heat or cool the upper surface of the substrate holder.” *Id.* at 14:28–63 and 16:5–67. Figure 6 also depicts heating elements 607 underneath the substrate holder, where “[t]he heating elements can selectively heat one or more zones in a desirable manner.” *Id.* at 15:10–26. Referring to Figure 7, the operation of the temperature control system is described as follows:

The desired fluid temperature is determined by comparing the desired wafer or wafer chuck set point temperature to a measured wafer or wafer chuck temperature The heat exchanger, fluid flow rate, coolant-side fluid temperature, heater power, chuck, etc. should be designed using conventional means to permit the

heater to bring the fluid to a setpoint temperature and bring the temperature of the chuck and wafer to predetermined temperatures within specified time intervals and within specified uniformity limits.

Id. at 16:36–39 and 50–67.

An example of a semiconductor substrate to be patterned is shown in Figure 9, below.

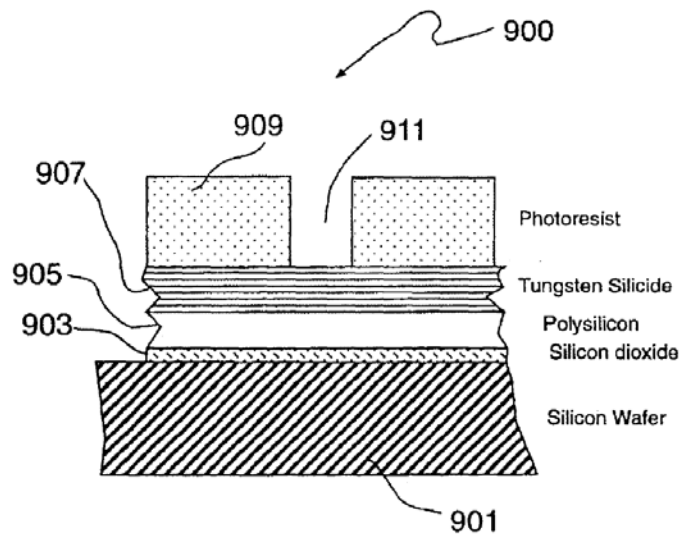


Figure 9 depicts substrate 901 having a stack of layers including oxide layer 903, polysilicon layer 905, tungsten silicide layer 907, and photoresist masking layer 909 with opening 911, from the treatment method shown in Fig. 10, below. *Id.* at 17:58–18:57.

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