DOCKET NO.: 0107495.00235US14

Filed By: Donald R. Steinberg, Reg. No. 37,241
David L. Cavanaugh, Reg. No. 36,476
Michael H. Smith, Reg. No. 71,190
60 State Street
Boston, Massachusetts 02109
Tel: (617) 526-6000
Email: Don.Steinberg@wilmerhale.com
David.Cavanaugh@wilmerhale.com
MichaelH.Smith@wilmerhale.com

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ASML Netherlands B.V., Excelitas Technologies Corp., and Qioptiq Photonics GmbH & Co. KG, Petitioners

v.

Energetiq Technology, INC., Patent Owner.

Case IPR2016-00565

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 8,525,138 CLAIMS 6, 7, AND 10

U.S. Patent 8,525,138 Petition for *Inter Partes* Review

TABLE OF CONTENTS

Page

I.	I. MANDATORY NOTICES			
	A.	Real Parties-in-Interest1		
	B.	Related Matters1		
	C.	Counsel2		
	D.	Service Information		
II.	CER	TIFICATION OF GROUNDS FOR STANDING		
III.	OVERVIEW OF CHALLENGE AND RELIEF REQUESTED			
	A.	Grounds for Challenge		
	B.	Prior Art Patents and Printed Publications Relied Upon		
	C.	Relief Requested4		
IV.	PERS	ERSON OF ORDINARY SKILL IN THE ART		
V.	OVERVIEW OF THE '138 PATENT			
	A.	Summary of the Prosecution History		
VI.	CLAIM CONSTRUCTION			
	A.	"Light source"		
VII.	VII. THE CHALLENGED CLAIMS ARE INVALID			
	A.	. Laser-Sustained Light Sources Were Known Long Before the Priority Date of the '138 Patent1		
	B.	Sustaining a plasma with a laser operating within 10 nm of a strong absorption line was well known in the art16		
VIII.	GRO	UNDS FOR FINDING THE CHALLENGED CLAIMS INVALID22		
	A.	Ground 1: Claims 6 and 7 Are Unpatentable Over Gärtner in View of Beterov		
		(a) Gärtner and Beterov are each prior art that was not considered by the Patent Office during examination		
		(b) Independent Claim 1 from which Claims 6 and 7 Depend is Unpatentable Over G\u00e4rtner in View of Beterov		
		 (c) Dependent Claims 6 and 7 are Unpatentable over G\u00e4rtner in view of Beterov		

	U.S. Patent 8,525,138 Detition for <i>later Party</i> Payion				
B.	Petition for <i>Inter Partes</i> Review Ground 2: Claims 6 and 7 Are Unpatentable Over Gärtner in View of Wolfram				
	(a) Gärtner and Wolfram are each prior art that was not considered by the Patent Office during examination40				
	(b) Independent Claim 1 from which claims 6 and 7 depend is Unpatentable Over Gärtner in View of Wolfram41				
	(c) Dependent Claims 6 and 7 are Unpatentable over Gärtner in view of Wolfram				
C.	Ground 3: Claim 10 is obvious over Gärtner in view of Beterov and Keefer				
	(a) Gärtner, Beterov, and Keefer are each prior art that was not considered by the Patent Office during examination45				
	(b) Claim 10 is Unpatentable over Gärtner in view of Beterov and Keefer				
	(c) Reasons to Combine				
D.	Ground 4: Claim 10 is obvious over Gärtner in view of Wolfram and Keefer				
	(a) Gärtner and Wolfram are each prior art that was not considered by the Patent Office during examination				
	(b) Claim 10 is Unpatentable over Gärtner in view of Wolfram and Keefer				
	(c) Reasons to Combine				
	PONSE TO ARGUMENTS RAISED BY PATENT OWNER IN ITS LIMINARY INJUNCTION MOTION				
A.	Patent Owner's Arguments Regarding the Content of the Prior Art				
B.	Patent Owner's Arguments Regarding Objective Indicia of Non-Obviousness				
CON	VCLUSION				

IX.

Х.

I. MANDATORY NOTICES

A. Real Parties-in-Interest

ASML Netherlands B.V., Excelitas Technologies Corp., and Qioptiq Photonics GmbH & Co. KG ("Petitioners") are the real parties-in-interest.

B. Related Matters

U.S. Patent No. 8,525,138 ("the '138 patent," Ex. 1101) is one member of a patent family of continuation and continuation-in-part applications. Exhibit 1102 shows the members of this patent family and the relationships among them. Petitioners have already filed a petition seeking *inter partes* review of the '138 patent and of related U.S. Patent Nos. 7,435,982 ("the '982 patent"); 7,786,455 ("the '455 patent"); 8,309,943 ("the '943 patent"); 8,969,841 ("the '841 patent"); and 9,048,000 ("the '000 patent"), as summarized below:

Patent	IPR No.	Challenged Claims	Status
No.			
7,435,982	IPR2015-01300	1, 3-4, 10, 16, 21, 24-	Instituted on all
	IPR2015-01303	27, 30, 31, 34, 37, 42-	challenged claims
		43, 49, 55, 61-64, 67,	
		68, 71, 72, 74, and 78	
7,435,982	IPR2015-01377	23 and 60	Instituted on all
			challenged claims
7,786,455	IPR2015-01279	19, 39-41	Instituted on all
			challenged claims
8,309,943	IPR2015-01277	1, 3, 13, and 16	Instituted on all
			challenged claims
8,525,138	IPR2015-01368	1-5	Instituted on all
			challenged claims
8,969,841	IPR2015-01362	1, 2, 3, and 7	Instituted on all
			challenged claims

Find authenticated court documents without watermarks at docketalarm.com.

U.S. Patent 8,525,138 Petition for *Inter Partes* Review

8,969,841	IPR2016-00127	10, 13, 14	Pending
9,048,000	IPR2015-01375	1, 15, and 18	Instituted on all
			challenged claims
9,048,000	IPR2016-00126	7-10	Pending

Petitioners are also filing additional petitions on the '138, '982, '455, '943, '841, and '000 patents, as well as on the related U.S. Patent No. 9,185,786 ("the '5786 patent")¹. Petitioners request that the *inter partes* reviews of the '138, '982, '455, '943, '841, '000, and '5786 patents be assigned to the same Panel for administrative efficiency.

The following litigation matters would affect or be affected by a decision in this proceeding: *Energetiq Technology, Inc. v. ASML Netherlands B.V.*, No. 1:15-cv-10240-LTS (D. Mass.) and *In the Matter of Certain Laser-Driven Light Sources, Subsystems Containing Laser-Driven Light Sources, and Products Containing Same*, Inv. No. 337-TA-983.

C. Counsel

Lead Counsel: Donald R. Steinberg (Registration No. 37,241) First Backup Counsel: David L. Cavanaugh (Registration No. 36,476) Second Backup Counsel: Michael H. Smith (Registration No. 71,190)

D. Service Information

¹ The use of the '5786 shortened form is to distinguish this patent from another Energetiq patent in the family, U.S. Patent No. 7,989,786 ("the '9786 patent").

DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.