# UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD \_\_\_\_\_\_

CISCO SYSTEMS, INC.
Petitioner

V.

CAPELLA PHOTONICS, INC. Patent Owner

Case IPR2014-01276 Patent RE42,678

PATENT OWNER PRELIMINARY RESPONSE

Mail Stop "PATENT BOARD" Patent Trial and Appeal Board U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450



# **Table of Contents**

I.	INT	INTRODUCTION				
II.	BACKGROUND					
	A.	Overview of the technology		5		
		1.	Switching	5		
		2.	Power	6		
		3.	Switching and control with wavelength selective routers (WSRs)	6		
	B.	Summary of '678 patent				
	C.	Summary of the petition				
	D.	Summary of Bouevitch				
	E.	Summary of Smith patent and the '683 provisional				
III.	CLA	IM CO	NSTRUCTION	16		
IV.	THE PETITION DOES NOT ESTABLISH A <i>PRIMA FACIE</i> CASE THAT INDEPENDENT CLAIMS 1, 21, 44, AND 61 OF THE '678 PATENT ARE OBVIOUS AND CONTAINS IRREPARABLE AND SUBSTANTIAL EVIDENTIARY GAPS					
	A.	patent	oner failed to make a threshold showing that the Smith t is entitled to the § 102(e) prior art filing date of the '683 sional	22		
	В.	indep	oner failed to determine the scope of the prior art and endently ascertain the differences between the claimed tion and the prior art	27		
	C.	Petitioner failed to show why a POSA would have been motivated to combine Bouevitch and Smith				
	D.	Bouev	vitch teaches away from Smith	32		



		1.	Bouevitch teaches away from using "angular displacement" to control power as described in Smith	32
		2.	Bouevitch teaches away from using an external feedback loop to control power as described in Smith	37
	Е.	Bouevitch does not teach or suggest "multiple fiber collimators" as recited by independent claims 1 and 21, or "an array of fiber collimators" as recited by independent claim 44		
	F.		evitch does not teach or suggest "an input port" and "output" as recited by the independent claims 1, 21, 44, and 61	41
	G.	pivot	Smith patent does not teach "channel micromirrors being all about two axes" as recited in independent claims 1 and and similar features recited in independent claim 61	45
	Н.	micro contr	Smith patent does not teach or suggest "channel omirrors being individually and continuously collable" as recited in independent claims 1 and 44, and ar features recited in independent claim 61	47
	I.	origi	Smith patent is substantially similar to references from nal prosecution and the two reissues, so institution should enied for all grounds using the Smith patent.	49
V.	FAIL	LS TO	UNDS ARE REDUNDANT AND THE PETITIONER PROVIDE "MEANINGFUL DISTINCTIONS" I THE GROUNDS	52
VI	CON	CLUS	JON	54



## **Table of Authorities**

## Cases

Application of Lund, 376 F.2d 982 (C.C.P.A. 1967)	22
Application of McLaughlin, 443 F.2d 1392 (C.C.P.A. 1971)	30
Application of Warner, 379 F.2d 1011 (C.C.P.A. 1967)	21
Biotec Biologische Naturverpackungen GmbH & Co. KG v. Biocorp, Inc., 249 F.3d 1341 (Fed. Cir. 2001)	17
CallCopy, Inc. v. Verint Americas, Inc., IPR2013-00486, Paper 11 (P.T.A.B. Feb. 5, 2013)	22
CCS Fitness, Inc. v. Brunswick Corp., 288 F.3d 1359 (Fed. Cir. 2002)	17
Crocs Inc. v. International Trade Commission, 598 F.3d 1294 (Fed. Cir. 2010)	30
DeSilva v. DiLeonardi, 181 F.3d 865 (7th Cir. 1999)	29
Ex Parte Mortensen, No. 2010-012383 (B.P.A.I. May 7, 2012)	21
Google Inc. v. EveryMD.com LLC, IPR2014-00347, Paper 9 (P.T.A.B. May 22, 2014)	29
<i>Graham v. John Deere Co.</i> , 383 U.S. 1 (1966)	27
<i>In re Chaganti</i> , 2014 WL 274514 (Fed. Cir. 2014)	
In re Giacomini, 612 F.3d 1389 (Fed. Cir. 2010)	



In re Gordon, 733 F.2d 900 (Fed. Cir. 1984)	30
<i>In re Gurley</i> , 27 F.3d 551 (Fed. Cir. 1994)	33
<i>In re Kahn</i> , 441 F.3d 977 (Fed. Cir. 2006)	20
In re Morris, 127 F.3d 1048 (Fed. Cir. 1997)	17
K-2 Corp. v. Salomon S.A., 191 F.3d 1356 (Fed. Cir. 1999)	18
KSR Int'l Co. v. Teleflex Inc., 550 U.S. 398 (2007)	21, 27, 30
Liberty Mutual Ins. Co. v. Progressive Casualty Ins. Co., CBM2012-00003, Paper 7 (P.T.A.B. Oct. 25, 2012)	52, 53
Medrad, Inc. v. MRI Devices Corp., 401 F.3d 1313 (Fed. Cir. 2005)	19
Mentor H/S, Inc. v. Med. Device Alliance, Inc., 244 F.3d 1365 (Fed. Cir. 2001)	17
Olympus Am., Inc. v. Perfect Surgical Techniques, Inc., IPR2014-00233, Paper 16 (P.T.A.B. June 16, 2014)	52
Pac-Tec, Inc. v. Amerace Corp., 903 F.2d 796 (Fed. Cir. 1990)	18
Perry v. Amerace Corp., 502 U.S. 808 (1991)	18
Synopsys, Inc. v. Mentor Graphics Corporation, IPR2012-00041, Paper 16 (P.T.A.B. Feb. 22, 2013)	17
United States v. Adams,	30



# DOCKET

# 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.

