# IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS WACO DIVISION

SOLAS OLED LTD.,	
Plaintiff,	
v. )	Case No. 6:19-cv-00515-ADA
GOOGLE LLC,	
Defendant.	
SOLAS OLED LTD.,	
Plaintiff,	
v. )	Case No. 6:19-cv-00537-ADA
APPLE INC.,	
Defendant. )	
SOLAS OLED LTD.,	
Plaintiff,	
v. )	Case No. 6:19-cv-00631-ADA
HP INC.,	
Defendant. )	

### **DEFENDANTS' AND INTERVENOR'S REPLY CLAIM CONSTRUCTION BRIEF**



## Case 6:19-cv-00537-ADA Document 51 Filed 07/30/20 Page 2 of 29

### TABLE OF CONTENTS

			Page
I.	U.S.	PATENT NO. 7,446,338 ("'338 PATENT")	1
	A.	"TRANSISTOR ARRAY SUBSTRATE" (CLAIM 1)	1
	B.	"PROJECT FROM A SURFACE OF THE TRANSISTOR ARRAY SUBSTRATE" (CLAIM 1)	3
II.	U.S.	PATENT NO. 7,499,042 ("'042 PATENT")	3
	A.	"SELECTION PERIOD" (CLAIM 1)	3
	B.	"SEQUENTIALLY SELECTS SAID PLURALITY OF SELECTION SCAN LINES IN EACH SELECTION PERIOD" (CLAIM 1)	6
	C.	"DESIGNATING CURRENT" (CLAIM 1)	7
	D.	"CURRENT LINES" (CLAIM 1)	8
III.	U.S.	PATENT NO. 7,663,615 ("'615 PATENT")	9
	A.	"THE OPERATION" (CLAIM 11)	9
	B.	"PRECHARGE VOLTAGE" (CLAIM 11)	11
	C.	"WRITING CONTROL SECTION" (CLAIM 11)	12
	D.	"DATA LINES" (CLAIM 11)	13
IV.	U.S.	PATENT NO. 7,573,068 ("'068 PATENT")	15
	A.	"FORMED ON SAID PLURALITY OF SUPPLY LINES ALONG SAID PLURALITY OF SUPPLY LINES" (CLAIM 1) / "CONNECTED TO SAID PLURALITY OF SUPPLY LINES ALONG SAID PLURALITY OF SUPPLY LINES" (CLAIM 13)	15
	В.	"SIGNAL LINES" / "SUPPLY LINES" (CLAIMS 1, 13)	
	D.	"SOURCE" / "DD AIN" (CLAIMS 1, 12)	



## Case 6:19-cv-00537-ADA Document 51 Filed 07/30/20 Page 3 of 29

### TABLE OF AUTHORITIES

	Page(s)
Cases	
Edwards Lifesciences LLC v. Cook Inc., 582 F.3d 1322 (Fed. Cir. 2009)	2
Energizer Holdings, Inc. v. Int'l Trade Comm'n, 435 F.3d 1366 (Fed. Cir. 2006)	9, 10
Enzo Biochem Inc. v. Applera Corp., 780 F.3d 1149 (Fed. Cir. 2015)	16
GPNE Corp. v. Apple Inc., 830 F.3d 1365 (Fed. Cir. 2016)	9, 14
Phillips v. AWH Corp., 415 F.3d 1303 (Fed. Cir. 2005)	3, 9, 14
Sinorgchem Co., Shandong v. Int'l Trade Comm'n, 511 F.3d 1132 (Fed. Cir. 2007)	2



### Table of Defendants' Exhibits<sup>1</sup>

Ex. No.	Exhibit / Publication Name
AA01	Excerpt from Prosecution History of U.S. Patent No. 7,446,338 – February 25, 2008
	Amendment
AA02	Claim Construction Memorandum and Order, Solas OLED Ltd. v. Samsung Display
	Co. Ltd., et al., 2:19-cv-00152-JRG, Dkt. 99 (Apr. 17, 2020, E.D. Tex.)
AA03	Excerpts from Deposition of Richard A. Flasck, Solas OLED Ltd. v. Samsung
	Display Co. Ltd. et al., 2:19-cv-00152-JRG (Feb. 6, 2020, W.D. Tex.)
AA04	Solas's Proposed terms for Construction
AA05	Patent Owner's Preliminary Response, IPR2020-00320 (April 25, 2020, PTAB)
AA06	Solas Notice Of Agreement On Previously Disputed Claim Construction Terms,
	Solas OLED Ltd. v. Samsung Display Co., 2:19-cv-00152-JRG, Dkt. 98 (E.D. Tex.,
	April 15, 2020)
BB01	Prosecution History of European Patent Application No. 1,372,136
BB02	Prosecution History of U.S. Patent No. 7.499,042
BB03	Jiun-Haw Lee et al., Introduction to Flat Panel Displays 50-52 (John Wiley & Sons
	2008)
BB04	Johnathan Halls, Short Course S-4: Fundamentals of OLEDs/PLEDs, S-4/101
	(Society for Information Display, May 18, 2008)
DD01	Declaration of Richard A. Flasck in Support Of Solas's Responsive Claim
	Construction Brief, Solas OLED Ltd. v. LG, Ltd., et al, 6:19-cv-00236-ADA (Apr.
	3, 2020, W.D. Tex.)
DD02	Solas's Reply Claim Construction Brief, Solas OLED Ltd. v. LG, Ltd., et al, 6:19-
	cv-00236-ADA (Apr. 24, 2020, W.D. Tex.)
DD03	Videoconference Deposition of Richard A. Flasck, Solas OLED Ltd. v. LG, Ltd., et
	al, 6:19-cv-00236-ADA, Dkt82 (Apr. 14, 2020, W.D. Tex.)
DD04	Phillip A. Laplante, Comprehensive Dictionary of Electrical Engineering 213, 643
	(Taylor & Francis Group, 2nd ed. 2005)
DD05	Stan Gibilisco, The Illustrated Dictionary of Electronics 179 (McGraw-Hill, 8th ed.
	2001)
DD06	A Dictionary of Science 738-39 (Oxford University Press, 2006)
DD07	Steven M. Kaplan, Wiley Electrical and Electronics Engineering Dictionary 237
220	(John Wiley & Sons, Inc., 2004)
DD08	Collins Dictionary Electronics 139 (HarperCollins, 2007)
DD09	Erin McKean, The New Oxford American Dictionary 545 (Oxford University Press,
	2nd ed. 2005)

<sup>&</sup>lt;sup>1</sup> All exhibits were filed with Defendants' opening and responsive claim construction briefs. No additional exhibits are being filed with this reply brief.



## **Table Of Abbreviations For Citations To Parties' Briefs And Expert Declarations**

Acronym	Document Description
Solas Open.	Solas's Opening Claim Construction Brief
_	Filed as Dkt. 74 in the Solas OLED Ltd. v. Google LLC, Case No. 6:19-cv-
	00515-ADA ("Google Case")
Solas Resp.	Solas's Responsive Claim Construction Brief
_	Filed as Dkt. 76 in the <i>Google</i> Case
Defs. Open.	Defendants' Opening Claim Construction Brief
	Filed as Dkt. 73 in the <i>Google</i> Case
Defs. Resp.	Defendants' Responsive Claim Construction Brief
_	Filed as Dkt. 75 in the <i>Google</i> Case
Flasck Open.	Declaration of Mr. Richard Flasck Supporting Solas's Opening Brief
Decl.	Filed as Dkt. 74-2 in the <i>Google</i> Case
Flasck Resp.	Declaration of Mr. Richard Flasck Supporting Solas's Responsive Brief
Decl.	Filed as Dkt. 76-1 in the <i>Google</i> Case
Kanicki Open.	Declaration of Dr. Jerzy Kanicki Supporting Defendants' Opening Brief
Decl.	Filed as Dkt. 73-1 in the <i>Google</i> Case
Kanicki Resp.	Declaration of Dr. Jerzy Kanicki Supporting Defendants' Responsive Brief
Decl.	Filed as Dkt. 75-1 in the <i>Google</i> Case



# 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.

