## The University of Texas School of Law

# 20th annual advanced patent law institute

# RECENT DEVELOPMENTS IN CLAIM CONSTRUCTION

November 5-6, 2015 Four Seasons Hotel Austin, Texas

Kenneth R. Adamo\*

Kirkland & Ellis LLP 300 N. LaSalle Chicago, IL 60654 (312) 862-2671

E-mail: kradamo@kirkland.com

\*Member, Illinois, New York, Ohio and Texas Bars. This paper reflects only the present considerations and views of the author, which should not be attributed to Kirkland & Ellis LLP or to any of his or its former or present clients. © 2015 Kenneth R. Adamo. All Rights Reserved.

### **TABLE OF CONTENTS**

			Page
I.		Introduction	1
II.		General Rules of Claim Construction	1
III.		A Little Reminder	5
IV.		Implicit Claim Construction	6
V.		Teva v. Sandoz: U.S. Supreme Court on Appellate Claim Construction Review	6
	A.	First, There Was Teva	6
	B.	Smith & Nephew Inc.	10
	C.	Lighting Ballast Control LLC	11
	D.	In re Papst Licensing Digital Camera Patent Litigation	13
	E.	Fenner Investments	17
	F.	Enzo Biochem	20
	G.	Shire Development LLC	25
	Н.	Kaneka and TomTom	26
	I.	Info-Hold, Inc	27
	J.	Extrinsic Evidence Review, Post-Teva	28
VI.		Use of Specification in Claim Construction	32
	A.	Objects of the Invention	32
	B.	Prior Construction of Patent with Similar Specification	33
	C.	The Present Invention	35
	D.	When Ambiguity Is Present, Turn to the Specification	36
	E.	Single Embodiment - Not a Restriction Absent Clear Intention	37
	F.	Importing Limitations or Reading Out the Preferred Embodiment	39
	G.	Patentee as Own Lexicographer	44

	Н.	Design Patent Construction	46
VII.		Claim Preamble as A Limitation	48
	A.	Not a Claim Limitation	48
	В.	Preamble A Limitation	49
VIII.		Means-Plus-Function Limitations	49
	A.	Means-Plus-Function Terms Must Be Supported By Corresponding Structure	49
	В.	Software Patents Must Include an Algorithm to Support Means-Plus-Function Terms	51
	C.	Means-Plus-Function Presumption, Pre-Williamson	52
	D.	Means-Plus-Function Presumption, Williamson and Beyond	54
IX.		Steps in Method Claims	55
X.		Indefiniteness Under § 112 ¶ 2 and Claim Construction	57
XI.		Construction Of Specific Terms	58
	A.	About	58
	В.	Substantial Portion	58
	C.	Associated With; Related To	58
	D.	Cooperating With	59
	E.	Place on Hold	59
	F.	Seal	60
	G.	Display Format	61
XII.		Transitional Terms ("Comprising") and Whereby Clauses	62
	A.	Comprising	62
	В.	Whereby	65
XIII.		Claim Differentiation	65
XIV		Prosecution History as A Claim Construction Tool	69

	A.		Disclaimer Found 69			
	B.		No Di	sclaimer Found	73	
	C.		Rescir	iding Estoppel	75	
XV.		Di	ctionari	es as A Claim Construction Tool	77	
XVI.	Expert Evidence in Claim Construction					
	A.		Denying Use of Experts Re Claim Construction			
	B.		Barrin	g Expert Testimony in Conflict with Claim Construction	81	
XVII.	. IPR/CBMR PTAB Claim Construction				83	
	A.		Broad	est Reasonable Interpretation Standard	83	
			1.	Claim Construction Is On a Case-By-Case Basis	85	
			2.	Claim Construction Must Not be Unduly Broad	85	
			3.	PTAB Constructions in Institution Decisions Are Not Final	87	
			4.	Dispute in PTAB Constructions	88	
	B.		Timin	g of Claim Construction	90	
	C.		Sua Sponte Claim Construction			
	D.		Effect	of Patent Expiration Prior to PTAB Final Hearing	92	
			1.	Patent Expired Before Petition Filed	92	
			2.	Patent Expires After Petition Filed But Before Institution	92	
			3.	Patent Expires After Institution But Before Final Decision	92	
			4.	Patent Expires After Final Decision But Before Conclusion of Appeal.	93	
	A.		Use of	a Terminal Disclaimer to Effect Claim Construction Standard	93	
	В.			R Petition Must Provide a Claim Construction For Means-Pluson Claim Terms	94	
			1.	Petition Must Identify Corresponding Structure for Means-Plus-Function Terms	94	

		2.	Means-Plus-Function Term that Cannot be Construed is Indefinite and Claims Reciting the Term Cannot Be Reviewed by the Board	95
	C.	Effect	of District Court Markman Claim Construction re PTAB	96
	D.	Effect	of PTAB BRI Claim Construction re District Court	98
	E.	Phillip	os v. AWH and BRI: Distinction Without a Difference	99
XVIII.		Effect of 1	Reexamination/Reissue on Claim Construction	105
	A.	Reexa	mination	105
	В.	Reissu	ie	106
XIX.		ITC Clain	n Construction and District Courts	110
XX.		Summary	Judgment Motions and Claim Construction	110
XXI.		Trial Proc	eedings and Impact re Claim Construction	113
	A.	Sancti	ons and Claim Construction	113
		1.	Sanctions Granted	113
		2.	Sanctions Refused	115
	В.	Waive	er of Claim Construction	116
	C.	Consolidation of Claim Constructions		117
	D.	. New Parties, New Claim Construction?		117
	E.	When	Is A Jury Confused by Claim Construction	117
	F.	Argui	ng Claim Construction at Trial	118
XXII.		Willfulnes	ss and Claim Construction	118
XXIII.		Amendme	ent of Infringement Contentions After Markman	118
XXIV.		Settlemen	t, Vacating Markman Construction	120
XXV.		Collateral	Estoppel in Claim Construction	121
XXVI.		Appellate	Review of Claim Construction	123
	A.	Interlo	ocutory Appeal re Claim Construction	123
	В	Possih	le Lack of Jurisdiction over Claim Construction Appeal	123

XXVII.	Conclusion	124

#### I. Introduction

Claim construction remains the bedrock providing essential foundation to the two principal considerations in every litigation/contested matter involving U.S. patents: the infringement and the validity of the claims in issue. Claim construction is also part and parcel of every USPTO proceeding under its "broadest reasonable construction in view of the specification to one of ordinary skill in the art," claim construction rubric, particularly in the new USPTO post grant IPR/PGR/CBMR procedures, where the petitioner is required to provide (at least a limited) claim construction as part of its petition seeking PTAB review. *See* 37 C.F.R. § 42.104(b).

Once more, the latest jurisprudence of the United States Court of Appeals for the Federal Circuit ("Federal Circuit") and its overseeing court, the United States Supreme Court has, while possibly surprisingly - maintaining the *Phillips v. AWH Corp.*, 415 F.3d 1303, 1312 (Fed. Cir. 2005) (*en banc*), over-arching methodology intact (even insofar as the PTAB is usually concerned), has made major changes in the rules of the road. Taken with the substantial shift in Federal Circuit judges to a new generation, much has been altered.

#### II. General Rules of Claim Construction

The substantive basics to correctly carry out claim construction continue as stated in *Phillips v. AWH Corp.*, 415 F.3d 1303, 1312 (Fed. Cir. 2005) (*en banc*). Intrinsic evidence - the specific claim whose term(s) are in issue, other claims, the specification and the prosecution history (file wrapper) - controls claim construction, with extrinsic evidence - including expert testimony and dictionaries - continuing in its secondary role.

The Federal Circuit recently reaffirmed basic claim construction principles in *CardSoft*, *LLC v. VeriFone*, *Inc.*, 769 F.3d 1114 (Fed. Cir. 2014). The court applied a broad range of tools from the *Phillips v. AWH Corp.*, to arrive at its interpretation, reversing the trial court.

The asserted patents (including U.S. Patent No. 6,934,945 ("the '945 patent")) describe software for controlling a payment terminal. The problem in the prior art was the variation in payment terminals, which used different hardware/software architectures. The variety of architectures required that each application program for a payment terminal be written expressly for the given terminal, meaning" [p]rogramming alterations are not 'portable' between different types of devices." *CardSoft*, 769 F.3d at 1116 (quoting '945 patent, col. 3 ll. 13-14). The patents-in-suit taught an improved "virtual machine" acting as an "interpreter" between an application program (like a merchant's payment-processing software) and the terminal's hardware systems. *Id.* "Instead of writing a payment processing application for a particular hardware configuration or operating system, a developer can write the application for the virtual machine," making it portable across systems. *Id.* (citing '945 patent, col. 3 ll. 41-45). The improved "virtual machine" of the patents-in-suit included a specialized "virtual message processor" designed to optimize network communications, and a "virtual function processor" designed to optimize control of the payment terminal itself. *Id.* 

CardSoft sued VeriFone and others for patent infringement in March 2008. *Id.* Having held a *Markman* hearing, the trial court construed "virtual machine" - a term found in all the as-

serted claims - as "a computer programmed to emulate a hypothetical computer for applications relating to transport of data." *Id.* at 1117 (quoting *CardSoft, Inc. v. VeriFone Holdings, Inc.*, No. 2:08-cv-98, 2011 WL 4454940, at \*8 (E.D. Tex. Sept. 29, 2011)). The trial court thus found that the claimed "virtual machine" need not run applications or instructions that are hardware or operating system independent.

Subsequent to trial in June 2012, the jury determined under the court's construction that VeriFone infringed two valid claims of the patents-in-suit. VeriFone appealed the trial court's construction of "virtual machine," arguing before the Federal Circuit that the trial court erred by not requiring the claimed "virtual machine" to include the limitation that "the applications it runs are not dependent on any specific underlying operating system or hardware." *Id*.

The Federal Circuit panel noted that the trial court's claim construction was "correct, but incomplete." *Id.* "The trial court improperly rejected the Appellants' argument that the 'virtual machine' must 'process[] instructions expressed in a hardware/operating system-independent language." *Id.* (alteration in original) (quoting *CardSoft*, 2011 WL 4454940, at \*7).

The court came to this conclusion by first noting that the problem in the prior art, as described by the specification, was that applications were hardware or operating system dependent. *Id.* The court found a "virtual machine" was taught to solve this problem that "creates a complete portable environment," which "allows programs to operate independent of processor" and allows "[d]ifferent arrangements of hardware [to] be controlled by the same application software." *Id.* (alterations in original) (quoting '945 patent, col. 3 ll. 34-46; col. 10 ll. 5-7).

Recognizing that it can also be appropriate to use extrinsic evidence to determine a term's meaning, the court found that Sun Microsystems, Inc. released the Java "virtual machine" in 1996—well before the priority date of the patents-in-suit—and advertised it as allowing a developer to "write once, run anywhere." *Id.* (quoting *Oracle Am., Inc. v. Google Inc.*, 750 F.3d 1339, 1348 (Fed. Cir. 2014)). During prosecution, the applicant explained that the asserted patents use the term "virtual machine" in the same way Sun did—the patents here further optimize the virtual machine for use on a payment terminal. *Id.* at 1117-18.

The Federal Circuit rejected CardSoft's arguments supporting the trial court's construction. First, CardSoft argued that the structure of the claims dictates a broader meaning because they "include" certain "instructions" in the virtual machine, suggesting they can also be operating system or hardware dependent. *Id.* at 1119. But, according to the court,

this conflates the virtual machine itself with applications (or instructions) running on the virtual machine. The defining characteristic of a virtual machine was, and is, that it acts as an interpreter between applications and the underlying hardware or operating system. That the claimed virtual machine "includes" applications, in the sense that it acts as an interpreter for applications, does not mean that the applications can be hardware or operating system dependent. Such a construction would leave "virtual machine" essentially meaningless

Id.





Find the full text of this and thousands of other resources from leading experts in dozens of legal practice areas in the <u>UT Law CLE eLibrary (utcle.org/elibrary)</u>

## Title search: Recent Developments in Claim Construction

Also available as part of the eCourse Patent Litigation: Recent Developments

First appeared as part of the conference materials for the  $20^{\text{th}}$  Annual Advanced Patent Law Institute session "Recent Developments in Claims Construction"