EXHIBIT 57

TO DECLARATION OF WENDY L. DEVINE IN SUPPORT OF NUVASIVE, INC.'S OPPOSITION TO DEFENDANTS' MOTION FOR SUMMARY JUDGMENT OR, IN THE ALTERNATIVE, SUMMARY ADJUDICATION



UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF CALIFORNIA – SAN DIEGO DIVISION

NUVASIVE, INC., a Delaware corporation,)
Plaintiff,	
V.	
ALPHATEC HOLDINGS, INC., a Delaware corporation, and ALPHATEC SPINE, INC., a California corporation,	Case No. 18-cv-00347-MDD-CAB
Defendants.	

OPENING EXPERT REPORT OF JIM YOUSSEF

TABLE OF CONTENTS

1.	A551	SERTED PATENTS AND CLAIMS1				
2.	EDU	EDUCATION AND EXPERIENCE1				
3.	COM	COMPENSATION				
4.	PRIO	PRIOR TESTIMONY2				
5.	MAT	ERIAL	S CONSIDERED	4		
6.	LEGAL STANDARDS PROVIDED BY COUNSEL					
	A. Claim Construction					
	B.	Infringement5				
	C.	Non-Infringing Alternatives				
	D.	Objec	ctive Indicia of Non-Obviousness	7		
		i.	Nexus	8		
		ii.	Skepticism	8		
		iii.	Industry Praise	8		
		iv.	Failure of Others	8		
		v.	Long-Felt Unmet Need	8		
		vi.	Copying	8		
		vii.	Teaching Away	9		
		viii.	Unexpected Results	9		
	E.	E. Public Interest				
7.	ALPI	HATEC	'S KNOWLEDGE OF THE PATENTS-IN-SUIT	9		
8.	LEVEL OF ORDINARY SKILL IN THE ART 10					
9.	SUMMARY OF MY OPINIONS					
10.	BACKGROUND13					



	A.	Histor	y of Spinal Fusion Procedures Prior to XLIF	13
	B.	XLIF	Solves the Problems Associated With Other Procedures	27
		i.	Access Tools	29
		ii.	Implant	32
		iii.	Neuromonitoring	33
		iv.	NuVasive's Patents	35
11.	ALPH	ALPHATEC'S PRODUCTS		35
		i.	Retroperitoneal Access	37
		ii.	Retroperitoneal Approach	38
		iii.	Traversing the Psoas	38
		iv.	Disc Space Access	40
		v.	Disc Preparation	41
		vi.	Implant Sizing & Insertion	42
		vii.	Supplemental Fixation & Closure	42
12.	THE,	801 PA	TENT	43
	A.	Claim	1	44
		i.	[1A]—A system for accessing a surgical target site, comprising:	44
		ii.	[1B]—a dilator system comprising a plurality of sequential dilators deliverable along a lateral, trans-psoas path to a targeted spinal site to create a distraction corridor	45
		iii.	[1C]—a handle assembly including a first pivotable arm member, a second pivotable arm member that pivots relative to said first arm member in response to manual adjustment of a component of the handle assembly, and a translating member adapted to move longitudinally relative to said first and second arm members	47
		iv.	[1D]—a first retractor blade having a generally concave innerfacing surface and being rigidly coupled to said first pivotable arm member prior to introduction toward the targeted spinal site, a second retractor blade having a generally concave inner-facing surface and being rigidly coupled to said second pivotable arm member prior to introduction toward the targeted spinal site, and a third retractor blade rigidly coupled to said translating member prior to introduction toward the targeted spinal site.	49



	V.	[1E]—an intradiscal shim element that releasably mounts to the third retractor blade such that a maximum length of the intradiscal shim element extends generally parallel to a maximum length of the third retractor blade and a distal tip portion of the intradiscal shim element extends distally of the distal end of the third retractor blade, wherein the intradiscal shim element engages with a groove defined by the third retractor blade to penetrate into a spinal disc at the targeted spinal site when the intradiscal shim element is releasably mounted to the third retractor blade; and	. 52
	vi.	[1F]—said handle assembly being configured to simultaneously introduce said first, second and third retractor blades along the lateral, trans-psoas path toward the targeted spinal site in a closed position while the generally concave inner-facing surfaces of said first and second retractor blades engage with an outermost dilator of the dilator system and thereafter opened by pivoting said first and second pivotable arm members relative to one another to create an operative corridor to said surgical target site	. 55
B.	Claim	2	. 58
	i.	[2A]—The system of claim 1, further comprising a K-wire configured to be advance [sic] along the lateral, trans-psoas path to the targeted spinal site and engage an annulus of said spinal disc, the K-wire further configured to extend entirely through a dilator of said dilator system from the annulus of the spinal disc to a position beyond a proximal most end of the dilator system.	. 58
C.	Claim 65		
	i.	[6A]—The system of claim 1, wherein at least one of said plurality of sequential dilators is equipped with at least one stimulation electrode.	. 59
D.	Claim	15	. 60
	i.	[15A]—The system of claim 1, wherein each of the plurality of sequential dilators includes a stimulation electrode at a distal region.	. 60
E.	Claim	16	61
	i.	[16A]—The system of claim 15, further comprising a K-wire configured to be advanced to the targeted spinal site and to engage an annulus of said spinal disc at the targeted spinal site, wherein at least one of the plurality of sequential dilators are deliverable over the K-wire.	. 61
F.	Claim	17	62
	i.	[17A]—The system of claim 1, wherein the first retractor blade includes a groove formed along said generally concave innerfacing surface of the first retractor blade.	. 62



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.

