mm 3/29/W

FORM PTO-1619A Expires 06/30/99 OMB 0651-0027

03-20-2000

U.S. Patent & TMOfc/TM Mail Ropt Dt. #26

04-07-2000

101307567

RECORDATION FORM COVER SHEET					
PATENTS ONLY					
TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).					
Submission Type Conveyance Type					
x New Assignment x Security Agreement					
Resubmission (Non-Recordation) Document ID# License Change of Name					
Correction of PTO Error Reel #					
Corrective Document (For Use ONLY by U.S. Government Agencies) Reel # Prame # Departmental File Secret File					
Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date Month Day Year					
Name (line 1) Spike Technologies, Inc. 02232000					
Name (line 2) Execution Date					
Second Party Month Day Year					
Name (line 1)					
Name (line ?)					
Receiving Party x Mark if additional names of receiving parties attached					
Name (line 1) Sandler Capital Partners IV, L.P.					
Name (line 2) Name (line 2) States, an appointment					
Address (line 1) 767 Fifth Avenue of a domestic representative is attached. (Designation must be a					
Address (line 2) 45th Floor separate document from Assignment.)					
Address (tine 3) New York NY State/Country Zip Code					
Domestic Representative Name and Address Enter for the first Receiving Party only.					
Name					
Addross (in a t)					
Address (line 1)					
Address (line 2)					
Address (line 3)					
Address (line 4)					
1/07/2000 DHGUYEN 00000013 08963039 \ FOR OFFICE USE ONLY					
FC:581 320.00 0P					

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:

Commissioner of Patents and Trademarks, Box Assignments, Washington, DECA 20 ENT

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Address	Area Code and Telephone Number 800	7-833-984X
Name Tonga Cr		
Address (line 1)		
	251.	
Address (line 3) A Dany	W 12307	
Address (line 4)		
Pages Enter the total number of page	and of the ottenhad named and the	
including any attachments.	ges of the attached conveyance document	# 35
Application Number(s) or Patent Num	ber(s) Mark if addition	nal numbers attached
Enter either the Patent Application Number or the Pa	atent Number (DO NOT ENTER BOTH numbers for the	same property).
Patent Application Number(s)	Patent Num	ber(s)
08963039 09287144 09390	0552	
09151036 60137875 0949	1929	
09287142 09327232		
If this document is being filed together with a <u>new</u> Paten signed by the first named executing inventor.	t Application, enter the date the patent application was	Month Day Year
Patent Cooperation Treaty (PCT)		
Enter PCT application number	PCT PCT	PCT
only if a U.S. Application Number	PCT PCT	PCT
has not been assigned.	POIL	PUI
Number of Properties Enter the total	al number of properties involved. # 8	
Fee Amount Fee Amount fo	or Properties Listed (37 CFR 3.41): \$	20.0 ³
hod of Payment: Enclos วosit Account	sed Deposit Account	
(Enter for payment by deposit account or if additi	ional fees can be charged to the account.) eposit Account Number: #	

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as

Authorization to charge additional fees:

indicated herein.

Zachary J. Shulman

Name of Person Signing

Signature

Date

No

PATENT

1.

RECORDATION FORM COVER SHEET CONTINUATION

U.S. Department of Commerce Patent and Trademark Office

OMIG 0651-0021	PATENTS ONLY	PAIENI
	arty(ies) Mark if additional names of conveying parties attache Conveying Parties	d Execution Date Month Day Year
Name (line 1)		
Name (line 2)	MAR 2 0 2000 W	Execution Date Month Day Year
Name (line 1)	TRADEMENT	
Name (line 2)	THAU.	Execution Date Month Day Year
Name (line 1)		
Name (line 2)]
Receiving Pa	<u>[4.]</u>	rties attached
Enter additional R	Receiving Party(ies)	
Name (line 1)	Sandler Capital Partners IV FTE, L.P.	If document to be recorded is an assignment and the
Name (line 2)		receiving parly is not domiciled in the United States, an appointment of a domestic representative
Address (line 1)	767 Fifth Avenue	is attached. (Designation must be a separate
Address (line 2)	45th Floor	document from Assignment.)
Address (line 3)	New York NY State/Country Zip C	
Name (line 1)	Signal Equity Partners, L.P.	If document to be recorded is an assignment and the
Name (line 2)		receiving party is not domiciled in the United States, an appointment of a
Address (line 1)	10 East 53rd Street	domestic representative is attached. (Designation must
Address (line 2)		be a separate document from Assignment.)
Address (line 3)	New York NY State/Country Zig)22 D Code
Application N	lumber(s) or Patent Number(s) Mark if additional numbers attached	d
Enter either the	Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the	
Pa	tent Application Number(s) Patent Num	nber(s)

PATENT

RECORDATION FORM COVER SHEET CONTINUATION

U.S. Department of Commerce Patent and Trademark Office

OMB 0631-0027	PATENTS ONLY	PAIENI
Conveying Pa	Arty(ies) Mark if additional names of conveying parties attache Conveying Parties	d Execution Date Month Day Year
Name (line 1)		
Name (line 2)	MAR 2 0 2000 g	Execution Date Month Day Year
Name (line 1)		
Name (line 2)	TRADPARAM	Execution Date Month Day Year
Name (line 1)		
Name (line 2)		
Receiving Pa		rties attached
Enter additional l	Receiving Party(ies)	
Name (line 1)	Manufacturers Life Ins. Co. (U.S.A.), The	☐ If document to be recorded ☐ is an assignment and the
Name (line 2)	c/o MF Private Capital, Inc.	receiving party is not domiciled in the United States, an appointment of a domestic representative
Address (line 1)	Suite 600	is attached. (Designation must be a separate document from
Address (line 2)	45 Milk Street	Assignment.)
Address (line 3)	Boston MA 02109 City State/Country Zip C	
Name (line 1)	Commonwealth Capital Ventures II, L.P.	If document to be recorded is an assignment and the receiving party is not
Name (line 2)		domiciled in the United States, an appointment of a
Address (line 1)	20 William Street	domestic representative is attached. (Designation must be a separate document from
Address (line 2)	Suite 225	Assignment.)
Address (line 3)	Wellesley MA 02481	p Code
Application N	umber(s) or Patent Number(s) Mark if additional numbers attache	ď
	Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the	
Pa	tent Application Number(s) Patent Nur	nber(s)

PATENT

RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

U.S. Department of Commerce Patent and Trademark Office PATENT

Conveying Pa		if additional names of conveying pa	arties attached	Evenution Bata
Enter additional C	onveying Parties		DE	Execution Date Month Day Year
Name (line 1)		/ <u>^</u>	' va	
Name (line 2)		RAM	2 0 2000 E	Execution Date Month Day Year
Name (line 1)		* A TEM	G TOMPICAL NOT	month Day Year
Name (line 2)				Execution Date Month Day Year
Name (line 1)				
Name (line 2)				
Receiving Par	rty(ies)	X Mark if additional names o	f receiving parties	attached
Enter additional R	eceiving Party(ies)			
Name (line 1)	CCV II Associates L.P.			If document to be recorded is an assignment and the
Name (line 2)				receiving party is not domiciled in the United States, an appointment
Address (line 1)	20 William Street			of a domestic representative is attached. (Designation must be a separate
Address (line 2)	Suite 225			document from Assignment.)
Address (line 3)	Wellesley City	MA State/Country	02481 Zip Code	
Name (line 1)	Wheatley Partners, L.P.			If document to be recorded is an assignment and the
Name (line 2)				receiving party is not domiciled in the United States, an appointment of a
Address (line 1)	80 Cutter Mill Road			domestic representative is attached. (Designation must be a separate document from
Address (line 2)	Suite 311			Assignment.)
Address (line 3)	Great Neck	NY State/Country	11021 Zip Coo	de
Application N	umber(s) or Patent Number(s		•	
	Patent Application Number or the Patent N			ne property).
Pa	tent Application Number(s)	ı	Patent Numbe	er(s)

RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office
PATENT

CMB 0631-0021	PATENTS ONLY	PAIENI			
Conveying Party(ies) Mark if additional names of conveying parties attached					
Enter additional C		Execution Date Month Day Year			
Name (line 1)					
Name (line 2)	IPE				
L		Execution Date Month Day Year			
Name (line 1)	MAR 2 0 2000				
Name (line 2)	\alpha de				
L	TATE TRADEMAN	Execution Date Month Day Year			
Name (line 1)					
Name (line 2)					
Receiving Pa	rty(ies) x Mark if additional names of receiving partie	s attached			
Enter additional R	Receiving Party(ies)				
Name (line 1)	Wheatley Foreign Partners, L.P.	If document to be recorded is an assignment and the			
Name (line 2)	c/o Wheatley Partners, L.P.	receiving party is not domiciled in the United States, an appointment			
Address (line 1)	80 Cutter Mill Road	of a domestic representative is attached. (Designation must be a separate			
Address (line 2)	Suite 311	document from Assignment.)			
Address (line 3)	Great Neck NY State/Country Zip Cod	e			
Name (line 1)	Woodland Partners	If document to be recorded is an assignment and the			
Name (line 2)		receiving party is not domiciled in the United States, an appointment of a			
Address (line 1)	68 Wheatley Road	domestic representative is attached. (Designation must			
Address (line 2)		be a separate document from Assignment.)			
					
Address (line 3)	Brookville NY State/Country Zip C	ode			
	umber(s) or Patent Number(s) Mark if additional numbers attached				
	Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the sa	· · · · ·			
Pa	tent Application Number(s) Patent Numb	er(s)			

RECORDATION FORM COVER SHEET CONTINUATION DATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office
PATENT

	PATENTS UNLY	7711 2014 1
Conveying P	Mark if additional names of conveying parties attached	Execution Date
	, onveying rathes	Month Day Year
Name (line 1)		
Name (line 2)	Man	Execution Date Month Day Year
Name (line 1)	MAR 2 0 2000	month bay real
Name (line 2)	To manner	Execution Date
Name (line 1)		Month Day Year
Name (line 2)		
Receiving Pa	rty(ies) Mark if additional names of receiving parti	es attached
Enter additional l	Receiving Party(ies)	
Name (line 1)	Michael Asch	If document to be recorded is an assignment and the receiving party is not
Name (line 2)		domiciled in the United States, an appointment
Address (line 1)	445 Park Avenue	of a domestic representative is attached. (Designation must be a separate
Address (line 2)	6th Floor	document from Assignment.)
Address (line 3)	New York NY State/Country Zip Coo	le
Name (line 1)	Arthur Asch	If document to be recorded is an assignment and the
Name (line 2)	c/o Michael Asch	receiving party is not domiciled in the United States, an appointment of a
Address (line 1)	445 Park Avenue	domestic representative is attached. (Designation must be a separate document from
Address (line 2)	6th Floor	Assignment.)
Address (line 3)	New York NY State/Country Zip C	ode
Application N	umber(s) or Patent Number(s) Mark if additional numbers attached	
	Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the sa	me property).
Pa	tent Application Number(s) Patent Numb	er(s)
		_]

RECORDATION FORM COVER SHEET CONTINUATION DATENTS ONLY

U.S. Department of Commerce Patent and Trademark Office PATENT

		PAIENI	SUNLY		
Conveying Pa	arty(ies) Conveying Parties	Mark if ad	ditional names of conveying	parties attac	Execution Date
Name (line 1)					Month Day Year
				PE	
Name (line 2)					Execution Date
Name (line 1)			MAR	رام 3000 در د	Month Day Year
Name (line 2)			Man	- Akg	, ,
(IIII 2)	<u>, , , , , , , , , , , , , , , , , , , </u>			PADEMA	Execution Date Month Day Year
Name (line 1)					
Name (line 2)					
Receiving Pa	rty(ies)		Mark if additional names	of receiving	parties attached
Enter additional F	Receiving Party(ies)				
Name (line 1)	Needham Management,	Inc.			If document to be recorded is an assignment and the
Name (line 2)	c/o Ron Kuzon				receiving party is not domiciled in the United States, an appointment
Address (line 1)	445 Park Avenue				of a domestic representative is attached. (Designation must be a separate
Address (line 2)	6th Floor				document from Assignment.)
Address (line 3)	New York	NY	State/Country		022 ip Code
Name (line 1)					If document to be recorded is an assignment and the
Name (line 2)					receiving party is not domiciled in the United States, an appointment of a
Address (line 1)					domestic representative is attached. (Designation must
Address (line 2)					be a separate document from Assignment.)
Address (line 3)					
Application N	umber(s) or Patent Nu	ımber(s)	State/Country Mark if additional nu	mhers attac	Zip Code
• -	Patent Application Number or th				ı
Pa	tent Application Number(s)		Patent N	umber(s)
				<u>L</u>	
		1		<u> </u>	
				<u> </u>	
			<u> </u>		

PATENT

MEMORANDUM OF PATENT SECURITY INTEREST

This Memorandum is dated as of March _____, 2000, between Spike Technologies, Inc., a Delaware corporation (the "Patent Owner"), having a place of business at Mill Yard Technology Park, 11 Pine Street Extension, Nashua, NH 03060, and Sandler Capital Partners IV, L.P. (the "Secured Party"), on behalf of itself and the other investors party to the Note Purchase and Security Agreement dated as of February 23, 2000, as from time to time in effect (the "Note Purchase Agreement"), among the Patent Owner, certain lenders party thereto and the Secured Party, having a place of business at 767 Fifth Avenue, 45th Floor, New York, New York 10153.

- 1. Pursuant to the Note Purchase Agreement, the Patent Owner has granted to the Secured Party a security interest in certain patents and applications therefor listed in <u>Exhibit A</u> attached hereto and made a part hereof, together with the registrations thereof and other applications filed with respect to the inventions covered thereby, or as a continuation-in-part, or division of any application mentioned above, or for reissue of any patent mentioned above or granted on an application mentioned above, and any United States patent issuing on any patent application mentioned above (collectively, the "<u>Collateral</u>").
- 2. The Patent Owner is the exclusive owner of all rights in the Collateral, including all right, title and interest in and to any cause of action that has previously arisen or that may arise with respect to unconsented use or infringement of the inventions embodied in the patents and patent applications mentioned above. The Patent Owner has the capacity to grant to the Secured Party the security interests granted under the Note Purchase Agreement.

The Patent Owner and the Secured Party have executed this Memorandum effective as of the date first above written.

Patent Owner:

Secured Party:

SPIKE TECHNOLOGIES, INC.

Ī

SANDLER CAPITAL PARTNERS IV, L.P., on behalf of the investors party to the Note Purchase Agreement referred to above

Bv

Title: Cond.

8201503

EXHIBIT A

8201503

SPIKE TECHNOLOGIES, INC.

PATENTS				
Title	Date Filed	Serial #		
Apparatus for High-Performance Sectored Antenna System	11/03/97	08/963,039		
High-Performance Sectored Antenna Using Low Profile Broadband Feed Devices	09/10/98	09/151,036		
Point-to-Multipoint Two-Way Broadband Wireless Communication System	04/06/99	09/287,144		
Method for Determining an Optimum Sector Distribution within a Coverage Area of a Wireless Communication	04/06/99	09/287,142		
Multibeam Sectored Antenna Systems	06/07/99	60/137,875		
Remote Controlled Programmable Receiver	06/07/99	09/327,232		
Apparatus for High-Performance Sectored Antenna System	09/03/99	09/390,552		
Hybrid Cable/Wireless Communication Systems and Methods	01/27/00	09/491,929		

PATENT
RECORDED: 03/20/2000 REEL: 010653 FRAME: 0993