PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matti VALKIAINEN	03/25/2009
Harry BOER	03/25/2009
Anu KOIVULA	03/25/2009
Maria SMOLANDER	03/25/2009
Pia QVINTUS-LEINO	05/05/2009
Kirsi IMMONEN	05/12/2009
Liisa VIIKARI	05/14/2009

RECEIVING PARTY DATA

Name:	VALTION TEKNILLINEN TUTKIMUSKESKUS	
Street Address:	Vuorimiehentie 3	
City:	Espoo	
State/Country:	FINLAND	
Postal Code:	FI-02150	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12305351

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 0365-0764PUS1

PATENT

REEL: 022696 FRAME: 0708

NAME OF SUBMITTER:	Leonard R. Svensson
Total Attachments: 5 source=20090518Assignment#page1.tif source=20090518Assignment#page2.tif source=20090518Assignment#page3.tif source=20090518Assignment#page4.tif source=20090518Assignment#page5.tif	

PATENT REEL: 022696 FRAME: 0709

RECORDATION FOR	United States Patent and Trademark Office RM COVER SHEET
PATENTS	SONLY
To the Director of the U.S. Patent and Trademark Office: Please	
Name of conveying party(ies):	Name and address of receiving party(ies)
Matti VALKIAINEN (03/25/2009), Harry BOER (03/25/2009), Anu KOIVULA (03/25/2009), Maria SMOLANDER (03/25/2009),	VALTION TEKNILLINEN Name: TUTKIMUSKESKUS
Additional name(s) of conveying party(ies) attached? X Yes No	Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):]
Execution Date(s): in parentheses after inventor name X Assignment Merger Change of Name	Vuorimiehentie 3
Security Agreement Joint Research Agreement	City: Espoo
Government Interest Assignment	State:
Executive Order 9424, Confirmatory License Other	Country: Finland Zip: FI-02150 Additional name(s) & address(es) Yes X No attached:
A. Patent Application No.(s) 12/305,351 Additional numbers attached?	B. Patent No.(s) Yes X No
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Leonard R. Svensson BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 0365-0764PUS1 Street Address: 12770 High Bluff Drive Suite 260	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)
City: San Diego	8. Payment Information
State: CA Zip: 92130	a. Credit Card Last 4 Numbers
Phone Number: (858) 792-8855	Expiration Date
Fax Number: (858) 792-3785	b. Deposit Account Number 02-2448
Email Address: mailfoom@bskb.com	Authorized User Name Leonard R. Svensson
9. Signature:	May 18, 2009
Signature	Date
Leonard R. Svensson - 30,330 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 5

Form PTO-1595	RECOR	RDATION FORM COVER SHEET (CONTINUED)	SERAN (A ARC
Additional Convey	ying Party(ies)/Exec	cution Date(s) (1. Continued):	
Pia QVINTUS-LEINC) (05/05/2009), Kirsi IMI	MONEN (05/12/2009), and Liisa VIIKA	ARI (05/14/2009)
Additional Assigne	ees (2. Continued):		
i			
Internal Address:			
Street Address:			
City:	State:	Country:	Zip:
Assignee Name:			
Internal Address:			
Street Address:			
City:	State:	Country:	Zip:
Internal Address: Street Address:			
Sifeet Address.			
1			
City:	State:	Country:	Zip:
Additional Applica	tions and/or Patents	s (4. Continued):	
Additional Patent Application 4A. Continued:	on Numbers	Additional Patent Numbers 4B. Continued:	
	Additional numbers	attached? Yes No	

Docket No.: 0365-0764PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No.	12/305,351	Filed December 17, 2008		
Insert Name(s) of Inventor(s)	***(Given l	ame FAMILY NAME (ALL CAPS))***		
	WHEREAS, Matti VALKIA QVINTUS-LEINO; Kirsi IMM has (have) invented certain new	INEN; Harry BOER; Anu KOIVULA; Maria SMOLANDER; Pi ONEN; and Liisa VIIKARI (hereinafter designated as the undersigned and useful improvements in:		
Insert Title of Invention	NOVEL THIN FILM STRUCT	URES		
	for which an application for L undersigned (except in the case	etters Patent of the United States of America has been executed by the of a provisional application)		
Insert Date of Signing of Application	on	; and		
Insert Name	WHEREAS, VALTION TEKNILLINEN TUTKIMUSKESKUS			
of Assignee Insert Address of Assignee CHECK BOX	of Vuorimiehentie 3, FI-02150	Espoo, FINLAND		
	desirous of acquiring the entire	resentatives and assigns (hereinafter designated as the Assignee) is right, title and interest in and to said invention and in and to any Letters erefor in the United States of America and		
IF APPROPRIATE	paid, the receipt of which is hundersigned has (have) sold, a transfer unto said Assignee the America, its territories, depende any and all Letters Patent(s) v	eration of the sum of Ten Dollars (\$10.00) to the undersigned in hand ereby acknowledged, and other good and valuable consideration, the ssigned and transferred, and by these presents does sell, assign and full and exclusive right to the said invention in the United States of encies and possessions and the entire right, title and interest in and to which may be granted therefor in the United States of America, its assessions, and if the box above is designated, in any and all foreign		
	and to any and all divisions, reterm or terms for which the same	issues, continuations, conversions and extensions thereof for the full may be granted.		

Page 1 of 3

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Attorney Docket No. 0365-0764PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 25th March 2009	Name of Inventor Watte Valkiau
	(signature) Matti VALKIAINEN
Date 25th MARCH 2005.	Name of Inventor (signature) Harry BOBR
Date 25th March 2009	Name of Inventor
Date 25th March 2009,	Name of Inventor
Date 5th May 2009.	(signature) Marie SMOLANDER Name of Inventor
Date 12th Hay 2003.	(signature) Pia QVINTUS-LEINO Name of Inventor (signature) Kirsi IMMONEN
	(alguminy) Kital Military

Page 2 of 3

Attorney Docket No. 0365-0764PUS1

Date May 14 th 2,003 Name of Inventor Wisgnature) Liisa VIIKARI

Page 3 of 3

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RECORDED: 05/18/2009

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PATENT REEL: 022696 FRAME: 0714