Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matthew Kerner	03/02/2006
Swetha Narayanaswamy	03/11/2006
Barbara Kess	08/21/2006
Yi Ming	03/17/2006
Weijuan Shi	03/02/2006
Michael Ryan Berg	08/18/2006
Randall K. Winjum	02/28/2006

RECEIVING PARTY DATA

Name:	Microsoft Corporation
Street Address:	One Microsoft Way
City:	Redmond
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11494659

CORRESPONDENCE DATA

500201659

Fax Number: (312)474-0448

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 3124746300

Email: docket@marshallip.com

Correspondent Name: William J. Kramer
Address Line 1: 233 S. Wacker Drive
Address Line 2: 6300 Sears Tower

Address Line 4: Chicago, ILLINOIS 60606-6357

ATTORNEY DOCKET NUMBER: | 30835/308525

PATENT

REEL: 018701 FRAME: 0907

40.00 1149

CH \$40

NAME OF SUBMITTER:	William J. Kramer
Total Attachments: 7	
source=308525.01#page1.tif	
source=308525.01#page2.tif	
source=308525.01#page3.tif	
source=308525.01#page4.tif	
source=308525.01#page5.tif	
source=308525.01#page6.tif	
source=308525.01#page7.tif	

PATENT ASSIGNMENT

	tha Narayanaswamy, Barbara Kess, Yi Ming, Weijuan Shi.
	ASSIGNOR"), have invented subject matter ("INVENTION")
	plication entitled "Method and Apparatus to Detect and
Mitigate Disk Failures" ("APPLICATION"),	
oxtimes will be filed without	this executed PATENT ASSIGNMENT. ASSIGNOR hereby
authorizes, and requ	uests, ASSIGNEE'S legal representatives, of Marshall,
Gerstein & Borun LL	P, who are associated with customer number 45373, to
insert here in parent	thesis (U.S. Serial No. 11/494,659
•	2006 this APPLICATION's U.S. Serial Number and filing
date, when known;	
	and was given U.S. Serial No;
is filed concurrently	-
•	Washington Corporation, on behalf of itself and its
——————————————————————————————————————	entitled to, and is desirous of acquiring, the entire and
	INVENTION and the APPLICATION (and all other
•	om, such as continuing applications, in and for the
United States, its territories, and all fore	ign countries ("APPLICATION DERIVATIVES"));
For good and valuable co	nsideration, the receipt of which is hereby
acknowledged by the ASSIGNOR, the ASS	SIGNOR hereby sells, assigns and transfers to the
ASSIGNEE, the entire and exclusive right	s, title and interest in the INVENTION and the
APPLICATION (and APPLICATION DERIVA	TIVES):
	rute all instruments and documents required for the
-	TION (and APPLICATION DERIVATIVES), for litigation
- •	om, and for the purpose of protecting and perfecting
title to the APPLICATION (and APPLICATI	
, 1	ON DERIVATIVES).
3/2/2006	M AWIN
	W Silver
DATE	Matthew Kerner
	Antique de la companya de la company
DATE	Swetha Narayanaswamy
DATE	Barbara Kess
DATE	Yi Ming
2	TO MINING
r. A Tr	had all
DATE	Weijuan Shi
DATE	Michael Ryan Berg

PATENT ASSIGNMENT

	na Narayanaswamy, Barbara Kess, Yi Ming, Weijuan Shi,
	SSIGNOR"), have invented subject matter ("INVENTION")
	lication entitled "Method and Apparatus to Detect and
Mitigate Disk Failures" ("APPLICATION"), w	
	is executed PATENT ASSIGNMENT. ASSIGNOR hereby
	sts, ASSIGNEE'S legal representatives, of Marshall,
	who are associated with customer number 45373, to
	esis (U.S. Serial No. <u>11/494,659</u> ,
	06) this APPLICATION's U.S. Serial Number and filing
date, when known;	
Jim distribute.	nd was given U.S. Serial No;
is filed concurrently he	
	ashington Corporation, on behalf of itself and its
	titled to, and is desirous of acquiring, the entire and
	IVENTION and the APPLICATION (and all other
	n, such as continuing applications, in and for the
United States, its territories, and all foreign	a countries ("APPLICATION DERIVATIVES"));
For good and valuable cons	ideration, the receipt of which is hereby
acknowledged by the ASSIGNOR, the ASSIG	NOR hereby sells, assigns and transfers to the
ASSIGNEE, the entire and exclusive rights, I	title and interest in the INVENTION and the
APPLICATION (and APPLICATION DERIVATIV	/ES);
ASSIGNOR agrees to execute	all instruments and documents required for the
making and prosecution of the APPLICATIO	N (and APPLICATION DERIVATIVES), for litigation
-	and for the purpose of protecting and perfecting
title to the APPLICATION (and APPLICATION	The state of the s
The state of the s	THE RESIDENCE OF THE PROPERTY
DATE	Matthew Kerner
	1 1
11 MARCH 2006	Ah
DATE	Swetha Narayanaswamy
	Jan C. Barray, Jan Co. Company of the Control of th
DATE	Barbara Kess
DATE	Yi Ming
DATE	Weijuan Shi
v • • • • • • • • • • • • • • • • • • •	
DATF	Michael Ryan Rerg

PATENT ASSIGNMENT

We, Matthew Kern	er. Swetha Na	rayanaswamy, Barbara Kess, Yi Ming, Weijuan Shi,
Michael Ryan Berg, Randall K. Wi	nium ("ASSIGI	NOR"), have invented subject matter ("INVENTION")
disclosed and/or claimed in a na	tent applicati	on entitled "Method and Apparatus to Detect and
Mitigate Disk Failures" ("APPLICA	TION®) which	
		ecuted PATENT ASSIGNMENT. ASSIGNOR hereby
authorizes a	nd repuests /	SCICNET'S Land ASSIGNMENT. ASSIGNOR NECEDY
Cerstein & Ro	run II Db.o	ASSIGNEE'S legal representatives, of Marshall,
insert here in	parenthesis (are associated with customer number 45373, to U.S. Serial No. $11/494.659$
filed July	27,	this APPLICATION's U.S. Serial Number and filing
date, when kin	Gwn:	The fact of the second many
:	•	as given U.S. Serial No
☐ is filed concur	renth herewit	h.
		gton Corporation, on behalf of itself and its
SUccessors and assions ("ASSIGNE	F) is entirle	to, and is desirous of acquiring, the entire and
exclusive rights title and interest	in the militar	to, and is desirous of acquiring, the entire and
applications and neverta desired	In the INVEN	FION and the APPLICATION (and all other
United Sees to the patents derived t	nererrom, su	ch as continuing applications, in and for the
onited states, its territories, and a	ill foreign cou	ntries ("APPLICATION DERIVATIVES"));
For good and valua	ble considera	tion, the receipt of which is hereby
acknowledged by the ASSIGNOR, t	he ASSICNOR	hereby sells, assigns and transfers to the
ASSIGNEE, the entire and exclusive	e rights, title a	and interest in the INVENTION and the
APPLICATION (and APPLICATION D	ERIVATIVES);	,
ASSIGNOR agrees to	execute all i	nstruments and documents required for the
making and prosecution of the API	PLICATION (a)	nd APPLICATION DERIVATIVES), for litigation
regarding letters patent derived th	erefrom and	for the purpose of protecting and perfecting
title to the APPLICATION (and APPL	ICATION DED	tor the purpose of protecting and perfecting
	JOHNON DER	IVATIVES).
DATE	*	Monte
		Matthew Kerner
• "		
DATE		
DATE		Swetha Narayan aswamy
august of		
august 21, 2006)	- Brabara Kers
DATE		
		Barbara Kess
DATE		Barbara Kess
DATE		
DATE		Barbara Kess
DATE		Barbara Kess Yi Ming
		Barbara Kess
		Barbara Kess Yi Ming
		Barbara Kess Yi Ming

PATENT ASSIGNMENT

We, Matthew Kerner, Swetha Narayanaswamy, Barbara Kess, Yi Ming, Weijuan Shi,

· · · · · · · · · · · · · · · · · · ·	injum ("ASSIGNOR"), have invented subject matter ("INVENTION" itent application entitled "Method and Apparatus to Detect and
Mitigate Disk Failures" ("APPLICA"	
	vithout this executed PATENT ASSIGNMENT. ASSIGNOR hereby
	nd requests, ASSIGNEE'S legal representatives, of Marshall,
	orun LLP, who are associated with customer number 45373, to
	parenthesis (U.S. Serial No. 11/494,659
date, when kr	27, 2006) this APPLICATION's U.S. Serial Number and filing
	rrently herewith;
	tion, a Washington Corporation, on behalf of itself and its
	EE"), is entitled to, and is desirous of acquiring, the entire and
	t in the INVENTION and the APPLICATION (and all other
	therefrom, such as continuing applications, in and for the
	all foreign countries ("APPLICATION DERIVATIVES"));
	able consideration, the receipt of which is hereby
	the ASSIGNOR hereby sells, assigns and transfers to the
	re rights, title and interest in the INVENTION and the
APPLICATION (and APPLICATION I	
	to execute all instruments and documents required for the
	PPLICATION (and APPLICATION DERIVATIVES), for litigation
	herefrom, and for the purpose of protecting and perfecting
title to the APPLICATION (and APP	LICATION DERIVATIVES).
DATE	Matthew Kerner
DATE	Swetha Narayanaswamy
DATE	
DATE	Barbara Kess
3/17/06	128-1
DATE	Yi Ming
DATE	Weiling Ch
	Weijuan Shì
DATE	Michael Ryan Berg

PATENT ASSIGNMENT

	Swetha Narayanaswamy, Barbara Kess, Yl Ming, Weijuan Shi,
· ·	m ("ASSIGNOR"), have invented subject matter ("INVENTION")
	t application entitled "Method and Apparatus to Detect and
Mitigate Disk Failures" ("APPLICATIO	
	but this executed PATENT ASSIGNMENT. ASSIGNOR hereby
	equests, ASSIGNEE'S legal representatives, of Marshall,
	LLP, who are associated with customer number 45373, to
	enthesis (U.S. Serial No. 11/494,659
	, 2006 this APPLICATION's U.S. Serial Number and filing
date, when know	
	and was given U.S. Serial No;
is filed concurren	
•	, a Washington Corporation, on behalf of itself and its
	, is entitled to, and is desirous of acquiring, the entire and
exclusive rights, title and interest in	the INVENTION and the APPLICATION (and all other
applications and patents derived the	refrom, such as continuing applications, in and for the
United States, its territories, and all i	foreign countries ("APPLICATION DERIVATIVES"));
For good and valuable	consideration, the receipt of which is hereby
acknowledged by the ASSIGNOR, the	ASSIGNOR hereby sells, assigns and transfers to the
-	ghts, title and interest in the INVENTION and the
APPLICATION (and APPLICATION DER	
	xecute all instruments and documents required for the
-	CATION (and APPLICATION DERIVATIVES), for litigation
	efrom, and for the purpose of protecting and perfecting
title to the APPLICATION (and APPLIC	
title to the AFFEICATION (and AFFEIC	ATION DENIVATIVES).
DATE	Matthew Kerner
	Matthew Reinel
DATE	Constant
DATE	Swetha Narayanaswamy
- A 700	
DATE	Barbara Kess
DATE	Yi Ming
2/2/.6	0 <
9/2/30	
DATE	Weijuan Shi
DATE	Michael Ryan Berg
	-

PATENT ASSIGNMENT

	tha Narayanaswamy, Barbara Kess, Yi Ming, Weijuan Shi,
Michael Ryan Berg, Randall K. Winjum (ASSIGNOR"), have invented subject matter ("INVENTION")
	plication entitled "Method and Apparatus to Detect and
Mitigate Disk Failures" ("APPLICATION").	
	this executed PATENT ASSIGNMENT. ASSIGNOR hereby
	iests. ASSIGNEE'S legal representatives, of Marshall,
Gerstein & Borun LLI	P, who are associated with customer number 45373, to
insert here in parent	hesis (U.S. Serial No. <u>11/494,659</u> ,
filedJULY 27, 2	006_) this APPLICATION's U.S. Serial Number and filing
date, when known;	
was filed on	. and was given U.S. Serial No;
is filed concurrently	herewith;
Microsoft Corporation, a	Washington Corporation, on behalf of itself and its
successors and assigns ("ASSIGNEE"), is	entitled to, and is desirous of acquiring, the entire and
	INVENTION and the APPLICATION (and all other
	om, such as continuing applications, in and for the
	ign countries ("APPLICATION DERIVATIVES"));
	nsideration, the receipt of which is hereby
	SIGNOR hereby sells, assigns and transfers to the
	s, title and interest in the INVENTION and the
APPLICATION (and APPLICATION DERIVA	
	rute all instruments and documents required for the
•	
•	TION (and APPLICATION DERIVATIVES), for litigation
•	om, and for the purpose of protecting and perfecting
title to the APPLICATION (and APPLICATION)	ON DERIVATIVES).
DATE	Matthew Kerner
DATE	Swetha Narayanaswamy
DATE	Barbara Kess
•	
DATE	Yi Ming
DATE	Weijuan Shi
8/18/06	2000
8/10/06	
DATE	Michael Ryan Berg

2-28-06

MS Docket No. 308525.01 (OC Docket No. 30835/308525)

DATE

Page 2 of 2