PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Frank J. Shu	12/07/2005
Nathan S. Obr	12/07/2005
Yi Meng	12/05/2005

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:	11297269	

CORRESPONDENCE DATA

Fax Number: (216)696-8731

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

Phone: 216-696-8730

Email: cmartin@thepatentattorneys.com

Correspondent Name: Himanshu S. Amin Address Line 1: 1900 E. 9th Street

Address Line 2: 24th Floor, National City Center

Address Line 4: Cleveland, OHIO 44114

ATTORNEY DOCKET NUMBER: MS313826.02/MSFTP1070USA

NAME OF SUBMITTER: Himanshu S. Amin

Total Attachments: 3 source=1070ass#page1.tif

PATENT REEL: 016935 FRAME: 0138

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> PATENT REEL: 016935 FRAME: 0139

MS Docket No. MS313826.02 (OC Docket No. MSFTP1070USA)

PATENT ASSIGNMENT

WE, FRANK J. SHU, NATHAN S. OE	BR, and YI MENG ("ASSIGNORS"), have			
invented subject matter ("INVENTION") disclose	ed and/or claimed in a patent application			
entitled "HARD DISK DRIVE CONDITION REPOR	• • • •			
("APPLICATION"), which:				
	cuted PATENT ASSIGNMENT. ASSIGNORS			
	st, ASSIGNEE'S legal representatives, of			
	E. 9th Street, Cleveland, Ohio 44114,			
·	comer number 27195, to insert here in			
	1/297,269 , filed 12/8/2005			
	al Number and filing date, when known;			
	was given U.S. Serial No;			
is filed concurrently herewith	-			
Microsoft Corporation, a Washing	gton Corporation, on behalf of itself and			
its successors and assigns ("ASSIGNEE"), 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	therefrom, such as continuing			
applications, in and for the United States, its to	erritories, and all foreign countries			
("APPLICATION DERIVATIVES"));	•			
For good and valuable considerate	tion, the receipt of which is hereby			
acknowledged by the ASSIGNORS, the ASSIGNORS hereby sell, assign and transfer to				
the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and				
the APPLICATION (and APPLICATION DERIVATIVE				
	nstruments and documents required for			
the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for				
- ,	•			
litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).				
and perfecting title to the AFF LICATION (and A	artication benivativesy.			
12/07/05	Late mold			
DATE	FRANK I. SHU			
	FRANK J. SHU			
				
DATE	NATHAN S. OBR			
DATE	YI MENG			

PATENT ASSIGNMENT

WE, FRANK J. SHU, NATHAN S. O	BR, and YI MENG ("ASSIGNORS"), have			
invented subject matter ("INVENTION") disclos	ed and/or claimed in a patent application			
entitled "HARD DISK DRIVE CONDITION REPOR	TING AND ERROR CORRECTION"			
("APPLICATION"), which:				
will be filed without this exe	ecuted PATENT ASSIGNMENT. ASSIGNORS			
	est, ASSIGNEE'S legal representatives, of			
	E. 9th Street, Cleveland, Ohio 44114,			
•	•			
who are associated with customer number 27195, to insert here in parenthesis (U.S. Serial No. <u>11/297,269</u> , filed <u>12/8/2005</u>				
	al Number and filing date, when known;			
	was given U.S. Serial No;			
is filed concurrently herewit				
•	or, gton Corporation, on behalf of itself and			
its successors and assigns ("ASSIGNEE"), is ent				
entire and exclusive rights, title and interest in	•			
(and all other applications and patents derived				
applications, in and for the United States, its t	-			
("APPLICATION DERIVATIVES"));	erritories, and an foreign countries			
• • • • • • • • • • • • • • • • • • • •	tion, the receipt of which is hereby			
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acknowledged by the ASSIGNORS, the ASSIGNO	-			
the ASSIGNEE, the entire and exclusive rights,				
the APPLICATION (and APPLICATION DERIVATIV				
	nstruments and documents required for			
the making and prosecution of the APPLICATION				
litigation regarding letters patent derived therefrom, and for the purpose of protecting				
and perfecting title to the APPLICATION (and A	APPLICATION DERIVATIVES).			
DATE	EDANIZ I CITI			
DATE	FRANK J. SHU			
12/7/2005	Nothan In.			
DATE	NATHAN S. OBR			
DATE	YI MENG			

PATENT REEL: 016935 FRAME: 0141

PATENT ASSIGNMENT

WE, FRANK J. SHU, NATHAN S. OB	R, and YI MENG ("ASSIGNORS"), have			
invented subject matter ("INVENTION") disclose	d and/or claimed in a patent application			
entitled "HARD DISK DRIVE CONDITION REPORT	ING AND ERROR CORRECTION"			
("APPLICATION"), which:				
will be filed without this exec	cuted PATENT ASSIGNMENT. ASSIGNORS			
hereby authorize, and reques	t, ASSIGNEE'S legal representatives, of			
Amin and Turocy, LLP, 1900	E. 9th Street, Cleveland, Ohio 44114,			
who are associated with cust	omer number 27195, to insert here in			
narenthesis (II S Serial No.	11/297,269 , filed 12/8/2005			
this APPLICATION'S U.S. Seria	al Number and filing date, when known;			
was filed on and was given U.S. Serial No				
its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION				
applications, in and for the United States, its to	erritories, and all foreign countries			
("APPLICATION DERIVATIVES"));	<u> </u>			
("APPLICATION DERIVATIVES ",	tion, the receipt of which is hereby			
FOI GOOD AND VALUABLE CONSIDERA	ORS hereby sell, assign and transfer to			
acknowledged by the ASSIGNORS, the ASSIGNORS hereby sell, assign and transfer to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and				
the APPLICATION (and APPLICATION DERIVATI	VES);			
ASSIGNORS agree to execute all	instruments and documents required for			
the making and prosecution of the APPLICATION	ON (and APPLICATION DERIVATIVES), for			
litigation regarding letters patent derived ther	efrom, and for the purpose of protecting			
and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).				
,, p				
	FRANK J. SHU			
DATE	FRANK J. SITO			
DATE	NATHAN S. OBR			
12/5/2005	To form			
	YI MENG			
DATE	11 77(0) 450			

RECORDED: 12/22/2005

PATENT REEL: 016935 FRAME: 0142