

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Venkataraman Ramanathan</td> <td>02/21/2002</td> </tr> <tr> <td>Ramanathan Ganapathy</td> <td>02/21/2002</td> </tr> <tr> <td>Yun Lin</td> <td>02/21/2002</td> </tr> <tr> <td>David Kruse</td> <td>02/21/2002</td> </tr> </tbody> </table>		Name	Execution Date	Venkataraman Ramanathan	02/21/2002	Ramanathan Ganapathy	02/21/2002	Yun Lin	02/21/2002	David Kruse	02/21/2002
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RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Microsoft Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Microsoft Way</td> </tr> <tr> <td>City:</td> <td>Redmond</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98052</td> </tr> </table>		Name:	Microsoft Corporation	Street Address:	One Microsoft Way	City:	Redmond	State/Country:	WASHINGTON	Postal Code:	98052
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CORRESPONDENCE DATA											
<p>Fax Number: (312)474-0448</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 3124746300</p> <p>Email: docket@marshallip.com</p> <p>Correspondent Name: William J. Kramer</p> <p>Address Line 1: 233 S. Wacker Drive</p> <p>Address Line 2: 6300 Sears Tower</p> <p>Address Line 4: Chicago, ILLINOIS 60606-6357</p>											
ATTORNEY DOCKET NUMBER:	30835/174285A										
NAME OF SUBMITTER:	William J. Kramer										
Total Attachments: 3											

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PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventorship..... RAMANATHAN et al.
Applicant.....Microsoft Corporation
Attorney's Docket No.213822
Title: OPPORTUNISTIC DIRECTORY CACHE

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

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Assignee:

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One Microsoft Way
Redmond, WA 98052

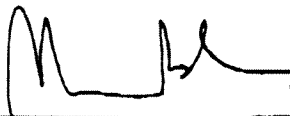
AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "OPPORTUNISTIC DIRECTORY CACHE," as described and claimed in the specification forming part of an application for United States letters patent referenced above;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

2/21/02
Date


Venkataraman Ramanathan

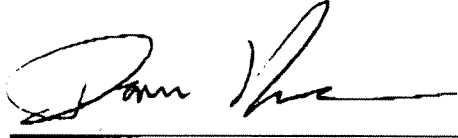
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