

11-27-2000

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of Conveying Part(ies):
 Bhalchandra S. Pandit
 Robert P. Reichel
 Jeffrey B. Hamblin
 Kedarnath A. Dubhashi

Additional name(s) of conveying party(ies) attached? Yes No

M (4)
10/31/00

2. Name and address of receiving party(ies):
 Name: Microsoft Corporation
 Internal Address:
 Street Address: One Microsoft Way
 City: Redmond State: WA Zip: 98052

Additional names(s) & address(es) attached: Yes No

JC825 U.S. PTO
09/704186
10/31/00

3. Nature of conveyance:
 Assignment Security Agreement
 Merger Change of Name
 Other

Execution Date: 10/27/00

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: 10/27/00

A. Patent Application No.(s):

Additional numbers attached: Yes No

09/704186

B. Patent No.(s)

Additional numbers attached: Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Allan T. Sponseller
 Internal Address: Lee & Hayes, PLLC
 Street Address: 421 W. Riverside Ave
 Suite 500
 City: Spokane State: WA Zip: 99201

6. Total number of applications and patents involved..... 1

7. Total fee (37 CFR 3.41)..... \$40.00
 Enclosed
 Authorized to be charged to deposit account

11/06/2000 MAHME1 00000023 09704186
 4 FC:581 40.00 00

8. Deposit account number:

DO NOT USE THIS SPACE

9. 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.

Allan T. Sponseller
 Name of Person Signing

[Signature]
 Signature

10/31/00
 Date

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Inventorship.....Pandit et al.
3 Applicant Microsoft Corporation
4 Attorney's Docket No. MSI-611US
5 Title: Improved Hashing Using Multiple Sub-Hashes

6 **PATENT ASSIGNMENT**

7 **PARTIES TO THE ASSIGNMENT**

8 Assignor(s):

9 Bhalchandra S. Pandit
10 9630 178th Pl. NE Unit 1
11 Redmond, WA 98052

12 Robert P. Reichel
13 20920 NE 17th St.
14 Redmond, WA 98053

15 Jeffrey B. Hamblin
16 17204 NE 45th St. #64
17 Redmond, WA 98052

18 Kedarnath A. Dubhashi
19 4217 147th Pl. NE #N104
20 Bellevue, WA 98007

21 Assignee:

22 Microsoft Corporation
23 A Corporation in the State of Washington
24 One Microsoft Way
25 Redmond, WA 98052

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "Improved Hashing Using Multiple Sub-Hashes," as described and claimed in the specification forming part of an application for United States letters patent executed herewith:

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

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

* * * * *

10/27/00
Date Jeffrey B. Hamblin

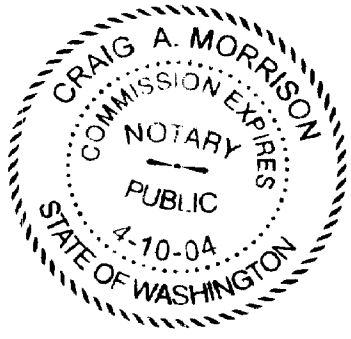
State of Washington)
County of King) ss.

I certify that I know or have satisfactory evidence that Jeffrey B. Hamblin is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 10/27/2000

Signature of Notary Public [Signature]

My appointment expires 4/10/04



* * * * *

10/27/2000
Date Kedarnath A. Dubhashi

State of Washington)
County of King) ss.

I certify that I know or have satisfactory evidence that Kedarnath A. Dubhashi is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 10/27/2000

Signature of Notary Public [Signature]

My appointment expires 4/10/04

