

12-21-2001



MSFT-0575/160342.1

101922868

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

1. Name of conveying party(ies):

| | |
|-----------------------------------|----------------------------------------|
| Andrew Blake First Assignor | November 30, 2001 Date of Execution |
| Michel Gangnet Second Assignor | November 30, 2001 Date of Execution |
| Patrick Perez Third Assignor | November 30, 2001 Date of Execution |
| Fourth Assignor | Date of Execution |
| Fifth Assignor | Date of Execution |
| Sixth Assignor | Date of Execution |

Additional name(s) of conveying party(ies) attached? () YES (X) NO

2. Name and address of receiving party(ies):

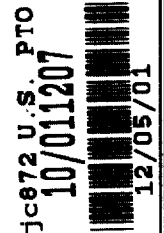
Name: Microsoft Corporation

Street Address: One Microsoft Way

City: Redmond

State: Washington ZIP: 98052

Additional name(s) & address attached? () YES (X) NO



3. Nature of Conveyance (check only one):

(X) New Assignment () Merger
 () License Agreement () Security Agreement
 () Change of Name () Other:

() Cross-reference of Assignment filed in United States
 Application No. / / , recorded on _____ at
 Reel No. _____ and Frame No. _____

4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

| | | |
|-------------------|--------------|---------------------------------------------------------------------------------|
| Application Nos.: | Patent Nos.: | Date application was signed by the first named executing inventor |
| | | November 30, 2001 |
| | | (Fill-in this date only if assignment is filed together with a new application) |

5. Name and address of party to whom correspondence concerning documents should be mailed:

Name: Thomas E. Watson
 WOODCOCK WASHBURN LLP
 One Liberty Place - 46th Floor
 Philadelphia, Pennsylvania 19103-7301
 215-568-3100

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$40.00
 () Enclosed
 (X) Authorized to be charged to Deposit Account Number 23-3050

8. Please charge any deficiency or credit any overpayment to Deposit Account Number 23-3050

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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.

Thomas E. Watson / 43,243
 Name of Person Signing/Reg. No.

Thomas Watson
 Signature

12/4/01
 Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 4

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventorship..... Andrew Blake et al.
Applicant..... Microsoft Corporation
Attorney's Docket No. MSFT-0575
Title: METHODS AND SYSTEM FOR PROVIDING IMAGE OBJECT BOUNDARY
DEFINITION BY PARTICLE FILTERING

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Andrew Blake
Stapleford House, London Rd.
Stapleford, CB2 5DG, United Kingdom

Michel Gangnet
15, Eights Marina, Mariner's Way
Cambridge, CB4 1ZA, United Kingdom

Patrick Perez
26, Benson Street
Cambridge, CB4 3QJ, United Kingdom

Assignee:

Microsoft Corporation
Corporation in the State of Washington
One Microsoft Way
Redmond, WA 98052

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled as
"Methods and System for Providing Image Object Boundary Definition by Particle Filtering"
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.

30 Nov 01

Date

Andrew Blake

Andrew Blake

30 Nov 01

Date

M. Gangnet

Michel Gangnet

30 Nov 01

Date

Patrick Perez

Patrick Perez