

03-27-2002



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3/14/02 Docket No.: 14984.28

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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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 party(ies):

Mikhail M. Lyapunov,
Mikhail V. Leonov,
David Colin Wilson Brown,
Claude Betrisey and Mohammed Gaber El-Gammal

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: **March 11, 2002**

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

Name: **Microsoft Corporation**

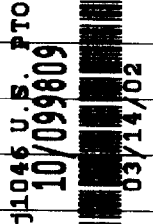
Address: **One Microsoft Way**

City: **Redmond** State/Prov.: **WA**

Country: **USA** ZIP: **98052-6399**

Additional name(s) & address(es)

☐ Yes ☒ No



4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: **March 14, 2002**

Patent Application No.

Filing date

B. Patent No.(s)

03/21/2002 HGEBREM1 00000049 10099809

03 FC:581

40.00 DP

Additional numbers

☐ Yes ☒ No

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

Name: **Rick D. Nydegger**

Registration No. **28,651**

Address: **Workman, Nydegger & Seeley**

1000 Eagle Gate Tower

60 East South Temple

City: **Salt Lake City** State/Prov.: **Utah**

Country: **USA** ZIP: **84111**

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ **40.00**

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

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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.

Adrian J. Lee

Name of Person Signing

Signature

March 14, 2002

Date

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Total number of pages including cover sheet, attachments, and

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PATENT
REEL: 012708 FRAME: 0471

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventorship.....Mikhail M. Lyapunov, et al.
Applicant.....Microsoft Corporation
Attorney's Docket No.14984.28

Title: **HARDWARE-ENHANCED GRAPHICS ACCELERATION OF PIXEL
SUB-COMPONENT-ORIENTED IMAGES**

PATENT ASSIGNMENT**PARTIES TO THE ASSIGNMENT****Assignor(s):**

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Mohammed Gaber El-Gammal
15509 128th CT NE
Woodinville, WA 98072

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 **HARDWARE-ENHANCED GRAPHICS ACCELERATION OF PIXEL SUB-COMPONENT-ORIENTED IMAGES**, as described and claimed in the specification forming part of an application for United States letters patent referenced above;

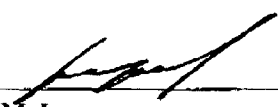
WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that 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.

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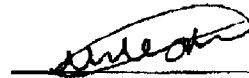
Date


Mikhail M. Lyapunov
Citizen of Russia

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Date



Mikhail V. Leonov
Citizen of Russia

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3/11/2002

Date

David Brown

David Colin Wilson Brown
Citizen of the United Kingdom

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3/11/2002

Date

C. Betrisey

Claude Betrisey

Citizen of the United States and Switzerland

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3/11/2002
Date

M. Gammal
Mohammed Gaber El-Gammal
Citizen of Egypt

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