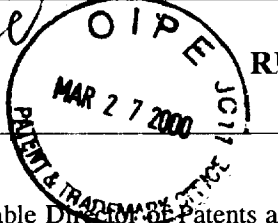


03-31-2000

FORM PTO-1595
3-1-92



101302534

HEET

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

1. Name of Conveying Party(ies): Wilfred G. Russell, Patrick J. Helland, Greg Hope, Rodney Limpinrecht, Mohsen M. Al-Ghosein and Jan S. Gray Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	2. Name and address of receiving party(ies): Name: <u>Microsoft Corporation</u> Internal Address: _____
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3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>3/8/00, 3/17/00, 3/8/00, 3/8/00,</u> <u>3/3/00, 3/2/00, respectively</u>	Street Address: <u>One Microsoft Way</u> City <u>Redmond</u> State <u>WA</u> ZIP <u>98052</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---	--

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: _____

A. Patent Application No.(s) <u>09/425,102</u>	B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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5. Name and address of party to whom correspondence concerning document should be mailed: Name: Stephen A. Wight Klarquist Sparkman Campbell Leigh & Whinston, LLP Internal Address: One World Trade Center, Suite 1600 Street Address: 121 S.W. Salmon Street City Portland State Oregon ZIP 97204-2988	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41): <u>\$40.00</u> Enclosed 8. <input checked="" type="checkbox"/> Any deficiency/overpayment is authorized to be charged to deposit account 02-4550
---	---

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.

Stephen A. Wight Name of Person Signing	 Signature	<u>03/20/00</u> Date
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Total number of pages including cover sheet, attachments and document: 6

OMB No. 0651-0011 (exp. 4/94)

ASSIGNMENT

WHEREAS, we, Wilfred G. Russell, Patrick James Helland, Greg Hope, Rodney Limprecht, Mohsen Al-Ghosein and Jan Stephen Gray (hereinafter referred to as ASSIGNORS), having post office addresses of 9616 173rd Place NE, Redmond, WA 98052, 17081 SE 58th Street, Bellevue, WA 98006, 12215 202nd Avenue NE, Woodinville, WA 98072, 15809 210th Avenue NE, Woodinville, WA 98072, 24677 SE 9th Place, Redmond, WA 98053 and 17214 NE 40th Street Redmond, WA 98052, respectively, are the joint inventors of an invention entitled SOFTWARE COMPONENT EXECUTION MANAGEMENT USING CONTEXT OBJECTS FOR TRACKING EXTERNALLY-DEFINED INTRINSIC PROPERTIES OF EXECUTING SOFTWARE COMPONENTS WITHIN AN EXECUTION ENVIRONMENT, as described and claimed in the specification forming part of an application for United States letters patent executed herewith;

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, ASSIGNORS hereby sell, assign and transfer unto said 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 ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS 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.

Executed at the place and date opposite our respective signatures below.

Wilfred G. Russell

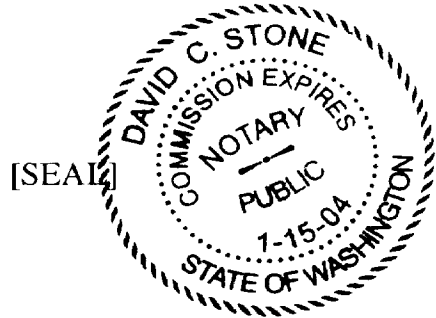
At WA, Bellevue
(City and State)
on this 8 day of 08-MARCH

STATE OF

WA)
KING) ss.

COUNTY OF

This 8 day of March 2000 before me personally came the above-named Wilfred G. Russell, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



Notary Public for Washington
My commission expires:

Patrick J. Helland

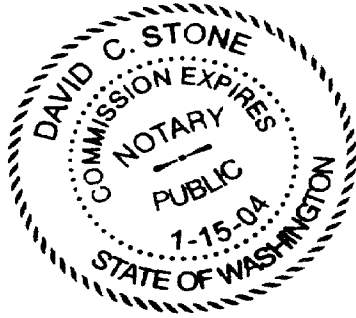
Patrick James Helland

At Belleve WA
(City and State)
on this 17 day of March

STATE OF WA)
COUNTY OF KING) ss.

This 17 day of March 2000 before me personally came the above-named Patrick James Helland, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

[SEAL]



Notary Public for Washington
My commission expires:

Greg Hope

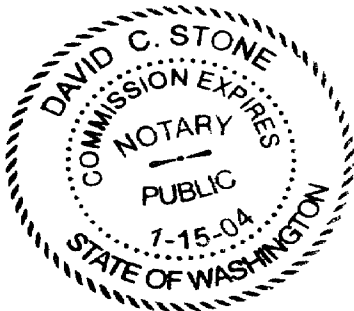
Greg Hope

At Belleve WA
(City and State)
on this 8 day of March

STATE OF WA)
COUNTY OF King) ss.

This 8 day of March 2000 before me personally came the above-named Greg Hope, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

[SEAL]



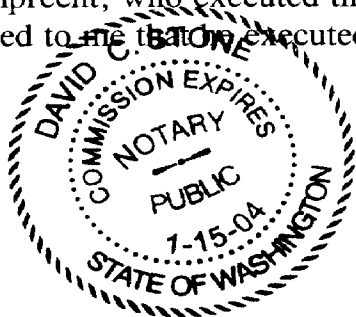
Notary Public for Washington
My commission expires:


Rodney Limprecht

At Belleve WA
(City and State)
on this 8 day of March,

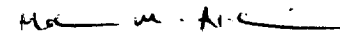
STATE OF WA)
) ss.
COUNTY OF King)

This 8 day of March 2000 before me personally came the above-named Rodney Limprecht, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



Notary Public for Washington
My commission expires:

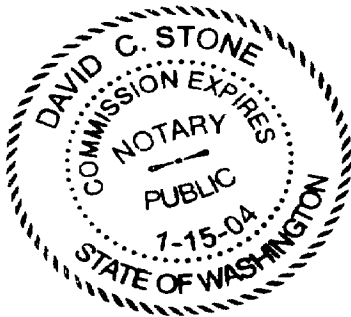
[SEAL]


Mohsen Al-Ghosein

At Belleve WA
(City and State)
on this 3 day of March

STATE OF WA)
) ss.
COUNTY OF King)

This 3 day of March 2000, before me personally came the above-named Mohsen Al-Ghosein, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



Notary Public for Washington
My commission expires:

[SEAL]

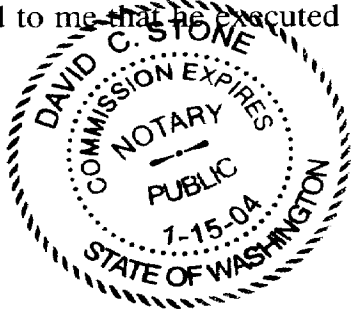
Jan Stephen Gray
Jan Stephen Gray

At Redmond WA
(City and State)

on this 2 day of March, 2000

STATE OF WA)
) ss.
COUNTY OF KING)

This 2 day of March, 2000, before me personally came the above-named Jan Stephen Gray, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



David Stone
Notary Public for Washington
My commission expires:

[SEAL]