PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| Van L. Jacobson | 12/10/2008 |
| Diana K. Smetters | 12/09/2008 |

RECEIVING PARTY DATA

| Name: | Palo Alto Research Center Incorporated | |
|-----------------|----------------------------------------|--|
| Street Address: | 3333 Coyote Hill Road | |
| City: | Palo Alto | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 94304 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12338175 |

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| ATTORNEY DOCKET NUMBER: | PARC-20080626-US-NP | |
|-------------------------|-------------------------------------|--|
| NAME OF SUBMITTER: | Edward J. Grundler, Reg. No. 47,615 | |

Total Attachments: 1

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RECORDED: 12/18/2008

is being executed concurrently herewith,

ASSIGNMENT

Attorney Docket No.: PARC-20080626-US-NP

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled

(the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

CONTROLLING THE SPREAD OF INTERESTS AND CONTENT IN A CONTENT CENTRIC NETWORK

| Palo Alto Research Center Incorporated, a Delaware Corporation, on behalf of itself, its successors and it assigns, and its legal representatives (PARC) is entitled to all rights in the Application and the Invention(s), and the full cocperation of the Inventor(s). For valuable consideration, the receipt of which is hereby acknowledged, the Inventor(s) hereby sell(s), assign(s), and transfer(s) to PARC the entire and exclusive right, title and interest in the Application and the Invention(s), in and for the United States, its territories, and all foreign countries, including all applications, patents, design registrations and reaties, and any provisional applications for which priority is claimed in the Application; and (1) request the U.S. Commissioner of Patents to issue all U.S. Letters Patent granted thereon to PARC; (2) agree that PARC may apply for and receive all foreign Letters Patent thereon; (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by PARC; and (4) authorize PARC to subsequently enter the Application Number on this Assignment, if not already entered above. Van L. Jacobson Date Date Date Date Date Date | ☐ was first execut ☑ was filed on ↓ ☑ claims the bene | ed on Application Number Sift of U.S. Provisional Applica | 12/338 = 175 tion(s) No(s). 61/054,044 | filed 16 May 2008. | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------|
| transfer(s) to PARC the entire and exclusive right, title and interest in the Application and the Invention(s), in and for the United States, its territories, and all foreign countries, including all applications, patents, design registrations and publications obtained or derived therefrom, world wide, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed in the Application; and (1) request the U.S. Commissioner of Patents to issue all U.S. Letters Patent granted thereon to PARC; agree that PARC may apply for and receive all foreign Letters Patent thereon; agree to execute all papers and take all actions necessary or desirable in connection therewith requested by PARC; and (4) authorize PARC to subsequently enter the Application Number on this Assignment, if not already entered above. Van L. Jacobson Date 12/10/08 Diana K. Smetters | its legal representatives (P. | | | | |
| (2) agree that PARC may apply for and receive all foreign Letters Patent thereon; agree to execute all papers and take all actions necessary or desirable in connection therewith requested by PARC; and (4) authorize PARC to subsequently enter the Application Number on this Assignment, if not already entered above. Van L. Jacobson Date 12/10/08 Date 12/10/08 | transfer(s) to PARC the ent United States, its territorie publications obtained or de | ire and exclusive right, title ares, and all foreign countries rived therefrom, world wide, a | nd interest in the Application a , including all applications, p and all priority rights under all | and the Invention(s), in and for patents, design registrations present or future conventions | r the and |
| Date 12/10/08 Date 12/10/08 Date 12/10/08 | (2) agree that PARC may(3) agree to execute all PARC; and | apply for and receive all fore papers and take all actions | ign Letters Patent thereon; necessary or desirable in co | onnection therewith requested | • |
| Date | Van L. Jacobson | | Date | 110/08 | |
| Date | Diana K. Smetters | | Date/ | 2/1/01 | |
| | | | Date | | |

Date ____