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Daeha Lee; Byoung Youl Song; Rockwon Kim; Jin Young Moon; Yeon Jun Kim; Moonyoung Chung; Kyung Il Kim; Seung Woo Jung; Hyeonsung Cho; Young Jo Cho

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

Name: Electronics and Telecommunications Research Institute

Internal Address: _____

Street Address: 161 Gajeong-dong, Yusong-gu

City: Daejeon-city State: _____ ZIP: _____

Country: Republic of Korea

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4. Application number(s) or patent number(s): ☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☒ No ☐ Yes

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

Name: Blakely, Sokoloff, Taylor & Zafman LLP

Internal Address: _____

Street Address: 12400 Wilshire Boulevard
7th Floor

City: Los Angeles State: CA ZIP: 90025

Phone Number: (310) 207-3800

Fax Number: (310) 820-5988

E-mail Address: eric_hyman@bstz.com

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....\$ 40.00

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Docket No. 2013P372

PATENT
REEL: 018691 FRAME: 0471

ASSIGNMENT

In consideration of the receipt of good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) LEE, Daeha	(6) CHUNG, Moonyoung
(2) SONG, Byoung Youl	(7) KIM, Kyung Il
(3) KIM, Rockwon	(8) JUNG, Seung Woo
(4) MOON, Jin Young	(9) CHO, Hyeonsung
(5) KIM, Yeon Jun	(10) CHO, Young Jo

who have made a certain new and useful invention, hereby sell, assign and transfer unto
Electronics and Telecommunications Research Institute of 161 Gajeong-dong,
Yusong-gu, Daejeon-city, Republic of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

PATH-TOKEN-BASED WEB SERVICE CACHING METHOD

- (a) for which an application for United States Letters Patent was filed on _____, and
identified by United States Serial No. _____;
or
(b) for which an application for United States Letters Patent was executed on _____


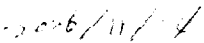

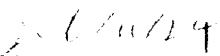



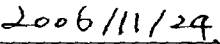
and the undersigned hereby authorize and request the United States Commissioner of Patent and Trademarks to issue any and all United States Letters Patents which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention, for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

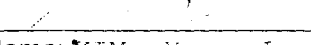
AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED of the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1)  Name: LEE, Daeha	 2006/11/24
2)  Name: SONG, Byoung Youl	 2006/11/24
3)  Name: KIM, Rockwon	 2006/11/24
4)  Name: MOON, Jin Young	 2006/11/24

5) 
Name: KIM, Yeon Jun

2006. 11. 29

6) 
Name: CHUNG, Moonyoung


2006. 11. 29

7) 
Name: KIM, Kyung Il

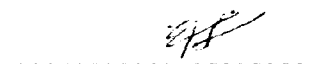
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8) 
Name: JUNG, Seung Woo

2006. 11. 24

9) 
Name: CHO, Hyeonsung

2006. 11. 24

10) 
Name: CHO, Young Jo

2006. 11. 24