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13/922,386 20 June 2013 (20.06.2013) US(71) Applicant: **CABLE TELEVISION LABORATORIES, INC.** [—/US]; 858 Coal Creek Circle, Louisville, Colorado 80027 (US).(72) Inventors: **ROBERT, Lund**; 516 Aztec Dr., Boulder, Colorado 80303 (US). **JOHNSON, Steven E.**; 5089 Fourmile Drive, Boulder, Colorado 80302 (US).(74) Agent: **BUSER, John R.**; Great Lakes Intellectual Property, PLLC., 44750 Yorkshire, Novi, Michigan 48375 (US).(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,

KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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(54) Title: ADMINISTRATION OF WEB PAGE

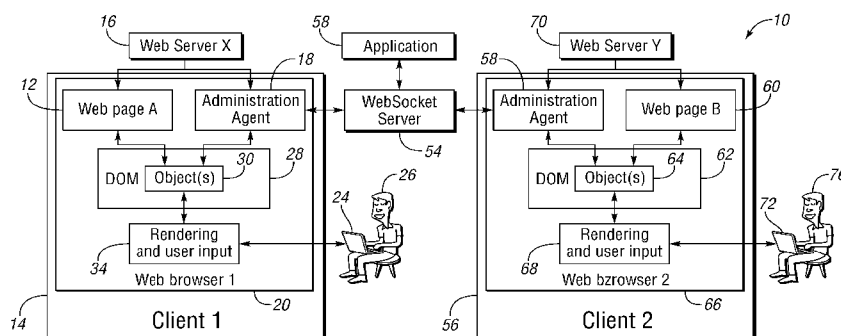


FIG. 2

(57) Abstract: Manipulation of a Web page displayed through a first device as a function of user interaction with a second device is contemplated. The manipulation may include operating the second device as a touchscreen or other gesture-based controllable device and automatically providing corresponding navigation within the Web page as a function of interactions registered through the second device.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US13/76307

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 9/44 (2014.01)

USPC - 719/310

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) Classification(s): G06F 9/44, 15/163, 3/048, 17/00, 3/00; H04L 29/06 (2014.01)

USPC Classification(s): 719/310; 709/203; 715/234, 753

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); IEEE/IEEEExplore; Google/Google Scholar; IP.com; document, object, model, interface, application, multiple, devices, web, distributing, agents

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/0271713 A1 (STULL, B et al.) October 29, 2009; figure 4; paragraphs [0005], [0006], [0010], [0021], [0034], [0038], [0051], [0054]-[0057].	1-20 and 37-40
A	US 2012/0173966 A1 (POWELL, T et al.) July 05, 2012; entire document.	1-20 and 37-40

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

2 July 2014 (02.07.2014)

Date of mailing of the international search report

30 JUL 2014

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US13/76307

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Group I: Claims 1-20 and 37-40; Group II: Claims 21-36; Group III: Claims 41-60

-Please see Supplemental Page-

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-20 and 37-40

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US13/76307

-Continued from Box No. III - Observations where unity of invention is lacking-

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1-20 and 37-40 are directed toward manipulating a first webpage.

Group II: Claims 21-36 are directed toward monitor and/or control of a first web browser operating on a first device and second visual representation.

Group III: Claims 41-60 are directed toward a method for personalizing television services delivered through webpages.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical features of Group I include publishing a first interaction command to a first administration agent operating on the first device, the first administration agent manipulating at least one of the plurality of first DOM objects, which are not present in Group II-III.

The special technical features of Group II include publishing a first copy of a DOM to a second device, the first copy identifying each DOM object as occurring at a first instance in time to create a second visual representation of at least a portion of the DOM objects identified within the copy, the second visual representation differing from the first visual representation, which are not present in Groups I and III.

The special technical features of Group III include personalizing television services, comprising: facilitating download of an identity token to a mobile device; facilitating detection of a static device in proximity to the mobile device; television services being personalized as a function of the identity token, which are not present in Groups I-II.

The common technical feature shared by Groups I-III is a computer-readable medium having non-transitory instructions operable with a processor to: facilitate control of a first web page executing in a first web browser operating on a first device as a function of user interaction with a second webpage executing in a second web browser of a second device; determining a DOM associated with a webpage, the DOM including a plurality of DOM objects to be used with the web browser.

However, this common feature is previously disclosed by US 2012/0226999 A1 (SEO). Seo discloses a computer-readable medium having non-transitory instructions operable with a processor (processor 220 is coupled to a storage unit 250 comprising a program; Figure 2 and paragraph [0042]) to: facilitate control of a first web page executing in a first web browser operating on a first device as a function of user interaction with a second webpage executing in a second web browser of a second device (second device transmits data by controlling the browser engine to the first device and the first device displays a browsing screen based on the received data; Abstract; paragraph [0026]); determining a DOM associated with a webpage (received data is defined a document object model (DOM) tree obtained; paragraphs [0023] and [0048]), the DOM including a plurality of DOM objects to be used with the web browser (a layout tree based on the configured DOM tree used to render a part of or an entire tree layout; paragraph [0059]).

Since the common technical feature is previously disclosed by the Seo reference, this common feature is not special and so Groups I-III lack unity.