

1) Family number: 63600327 (US2016275052A)

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Title: DECLARATIVE CASCADE REORDERING FOR STYLES

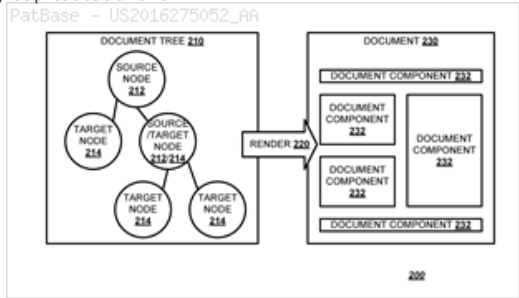
Abstract: In one example, a document rendering device may reorder a cascade level for a style property of a style sheet to maintain cohesion across multiple document components of a document. The document rendering device may store a style sheet describing rendering of a structured document having a nominal cascade level indicating a sheet hierarchy for the style sheet to resolve conflicts with style properties in other style sheets. The document rendering device may set a group cascade level for a property group describing a set of multiple style properties in the style sheet so that the group cascade level is different than the nominal cascade level. The document rendering device may render a document component of the structured document for display based on the property group at the group cascade level.

Classifications:

International (IPC 8-9): G06F G06F17/00 G06F17/21
G06F17/22 (Advanced/Invention)

CPC: G06F17/2241 G06F17/2247 G06F17/211 G06F17/227

US: 715/235



Family:

Publication number	Publication date	Application number	Application date
AU2016232869 AA	20160922	AU20160232869	20160317
BR112017018014 A2	20180410	BR20171118014	20160317
CA2977577 AA	20170822	CA20162977577	20160317
CL2017002305 A1	20180309	CL20170002305	20170912
CN107408104 A	20171128	CN201680016464	20160317
CO20170009118 A2	20171121	CO20170009118	20170906
EP3271830 A1	20180124	EP20160765800	20160317
ID201801137 A	20180202	ID2017P0006207	20160317
IL253861 A0	20170928	IL20160253861	20160317
IN201747028530 A	20170818	IN201747028530	20170810
KR20170129225 A	20171124	KR20177029886	20160317
MX2017011804 A1	20171207	MX20170011804	20160317
PH2017550080 A	20180212	PH20170550080	20170811
SG11201707181V A1	20171030	SG20171107181	20160317
US2016275052 AA	20160922	US20160068536	20160311
WO16149565 A1	20160922	WO2016US22991	20160317

Priority:

US20150135159P 20150318 US20160068536 20160311 WO2016US22991 20160317

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): MICROSOFT TECHNOLOGY LICENSING LLC ; MICROSOFT TECH LICENSING LLC

Assignee(s): EICHOLZ ARRON J ; LEITHEAD TRAVIS

Inventor(s): (std): ARRON J EICHOLZ ; EICHOLZ ARRON J ; LEITHEAD TRAVIS ; TRAVIS LEITHEAD

Inventor(s): ARRON EICHOLZ J

Agent(s): DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; ESTUDIO VILLASECA Y CIA; LUZ HELENA ADARVE GOMEZ; CMS CAMERON MCKENNA NABARRO OLSWANG LLP; LANNY SETIAWAN MBA MGMT MA LPC MA LMFT; NEAL STEPHEN T

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 31869210 (US2005091587A)

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Title: EXPRESSION GROUPING AND EVALUATION

Abstract: An apparatus comprises a stylesheet compiler and a document processor. The stylesheet compiler is configured to identify expressions in a stylesheet and is configured to generate one or more expression trees representing the expressions. Expressions having one or more common nodes are represented as children of a subtree that represents the common nodes. Coupled to receive a document and the expression tree, the document processor is configured to evaluate the expressions represented in the one or more expression trees against the document.

Classifications:

International (IPC 8-9): G06F15/00 G06F17/00 G06F17/21
G06F17/22 G06F17/27 G06F17/30 G06F9/00 (Advanced/Invention);
G06F17/00 G06F17/21 G06F17/30 G06F9/00 (Advanced/Non-invention);
G06F17/00 G06F17/21 G06F17/22 G06F17/30

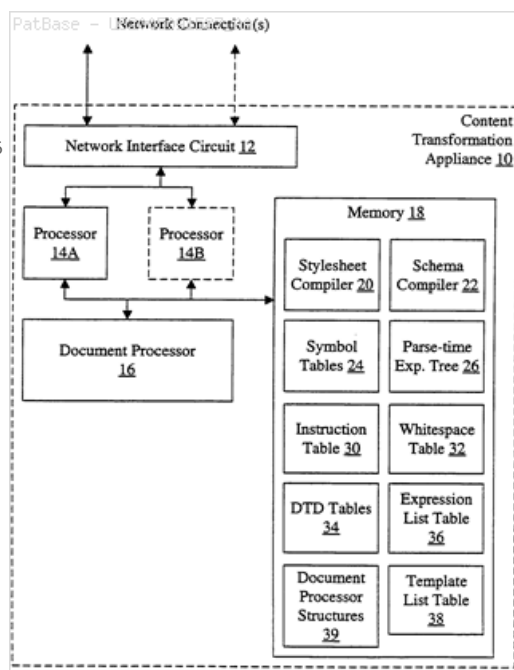
G06F9/00 (Core/Invention)

International (IPC 1-7): G06F17/00 G06F17/30

CPC: G06F17/30569 G06F17/30908 G06F17/272 Y10S707/99936
G06F17/2247 G06F17/227

European: G06F17/22M G06F17/22T2 G06F17/27A6 G06F17/30S5V
G06F17/30X

US: 707/6 707/999.006 707/E17.006 707/E17.006S 715/235 715/236
715/248 715/248P 715/267 715/500.1 715/513 715/522 715/523
717/140



Family:

Publication number	Publication date	Application number	Application date
■ CN100498770 C	20090610	CN200480034556	20041022
■ CN101416182 A	20090422	CN200480034555	20041022
■ CN101416182 B	20101208	CN200480034555	20041022
■ CN101930465 A	20101229	CN201010263985	20041022
■ CN101930465 B	20120905	CN201010263985	20041022
■ CN1898666 A	20070117	CN200480034556	20041022
■ CN1910576 A	20070207	CN200480034786	20041022
■ CN1910576 B	20101103	CN200480034786	20041022
■ EP1678641 A1	20060712	EP20040796089	20041022
■ EP1678643 A1	20060712	EP20040796296	20041022
■ EP1723553 A2	20061122	EP20040796311	20041022
■ JP2007509449 T2	20070412	JP20060545337T	20041022
■ JP2007510204 T2	20070419	JP20060536821T	20041022
■ JP2007528052 T2	20071004	JP20060536884T	20041022
■ JP4829794 B2	20111207	JP20060536884T	20041022
■ JP4942489 B2	20120530	JP20060545337T	20041022
■ KR101110988 B1	20120308	KR20067009741	20060519
■ KR101129083 B1	20120326	KR20067009742	20041022
■ KR101204128 B1	20121122	KR20067009743	20041022
■ KR20060101493 A	20060925	KR20067009741	20041022
■ KR20060131753 A	20061220	KR20067009743	20041022
■ KR20070019663 A	20070215	KR20067009742	20041022
■ US2005091587 AA	20050428	US20040889273	20040712
■ US2005091588 AA	20050428	US20040889547	20040712
■ US2005091589 AA	20050428	US20040889614	20040712
■ US7328403 BB	20080205	US20040889547	20040712
■ US7437666 BB	20081014	US20040889273	20040712
■ US7458022 BB	20081125	US20040889614	20040712
■ WO05041072 A1	20050506	WO2004US35285	20041022
■ WO05043412 A1	20050512	WO2004US35032	20041022
■ WO06054959 A1	20060526	WO2004US35300	20041022

Priority:

US20030513306P 20031022	US20040889273 20040712	US20040889547 20040712
US20040889614 20040712	WO2004US35285 20041022	WO2004US35300 20041022
WO2004US35032 20041022		

Probable Assignee: INTEL CORP

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Inventor(s): CERMAK DANIEL ; RAMARAO KAREMPUDI ; RAMARAO KAREMPUDI V TRUJILLO RICHARD P CERMAK DANI ; TRUJILLO RICHARD

Agent(s): MEYERTONS HOOD KIVLIN KOWERT AND GOETZEL PC; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DEFINING THE VISUAL APPEARANCE OF USER-INTERFACE CONTROLS

Abstract: Systems and methods for defining at least one visual-display characteristic of at least one user-interface control are disclosed. In accordance with various embodiments of the invention, a dialog template specifies at least one style selector for the at least one user-interface control. A transformation module extracts the at least one style selector from the dialog template. A style sheet defines at least one visual-display-characteristic value that is applicable to the at least one user-interface control and that is associated with the at least one style selector. A style sheet-parsing engine uses the at least one style selector to retrieve the at least one visual-display-characteristic value from the style sheet. And a user-interface-control-drawing module draws the at least one user-interface control in accordance with the at least one visual-display-characteristic value retrieved by the style sheet-parsing engine.

Classifications:**International (IPC 8-9):** G06F17/24 G06F3/00

G06F3/14 (Advanced/Invention);

G06F17/24 (Core/Invention)

CPC: G06F8/38**European:** G06F8/38**US:** 715/234 715/235 715/236 715/236P 715/249 715/249S 715/517 715/744 715/762 715/765 715/908**Family:**

Publication number	Publication date	Application number	Application date
US2006010374 AA	20060112	US20040888045	20040709
US7398472 BB	20080708	US20040888045	20040709

Priority:

US20040888045 20040709

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC**Assignee(s):** (std): MICROSOFT CORP**Assignee(s):** MICROSOFT TECHNOLOGY LICENSING LLC ; MICROSOFT

Inventor(s): (std): BONI JALAYNE T ; BOWER NATHAN W ; CORRINGTON ROBERT E ; CUTSINGER PAUL L ; KOENIG DOUGLAS ; LAYSON THOMAS J ; LEONG MUN Y ; RASMUSSEN KATHRYN G ; RUGGE ROBERT D ; SHAMBAUGH DIANE ; VIRITHTHAMULLA GAMAGE I ; WESTCOTT DEREK R ; YANG SEUNG M ; ZOU SONG ; RUGGE ROBERT DAVID ; LEONG MUN SCOTT YING ; BOWER NATHAN WILLIAM ; BONI JALAYNE TABER

Inventor(s): YANG SEUNG ; WESTCOTT DEREK ; BONI JALAYNE ; VIRITHTHAMULLA GAMAGE ; RUGGE ROBERT ; LEONG MUN YING ; RASMUSSEN KATHRYN ; LEONG MUN ; LAYSON THOMAS ; CUTSINGER PAUL ; CORRINGTON ROBERT ; BOWER NATHAN

Agent(s): BANNER AND WITCOFF LTD ATTORNEYS FOR MICROSOFT; BIRCH STEWART KOLASCH AND BIRCH LLP

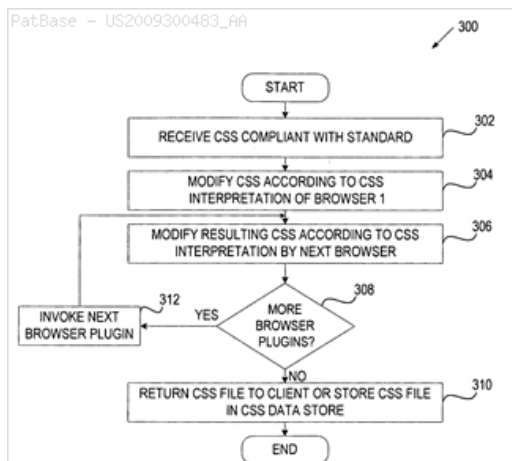
4) Family number: 44052554 (US2009300483A)

Title: STYLESHEET CONVERSION ENGINE

Abstract: In one embodiment, a method includes receiving a browser-independent cascading style sheet (CSS) that conforms to a CSS standard, and automatically modifying the browser-independent CSS to incorporate different CSS related features of various browsers. The method further includes creating one or more CSS files customized for the various browsers.

Classifications:**International (IPC 8-9):** G06F17/00 G06F17/20 (Advanced/Invention);

G06F17/00 G06F17/20 (Core/Invention)

CPC: G06F17/2247 G06F17/227**European:** G06F17/22M G06F17/22T2**US:** 715/236 715/236P 715/248 715/248S**Family:**

Publication number	Publication date	Application number	Application date
US2009300483 AA	20091203	US20080156136	20080530

Priority:

US20080156136 20080530

Probable Assignee: RED HAT INC**Assignee(s):** (std): RED HAT INC ; VIET JULIEN**Inventor(s):** (std): VIET JULIEN**Agent(s):** RED HAT/BSTZ, BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; RED HAT BSTZ BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; LOWENSTEIN SANDLER LLP**5) Family number: 27965239 (US2003084078A)**

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Title: STRUCTURED DOCUMENT TRANSFORMATION METHOD, STRUCTURED DOCUMENT TRANSFORMATION APPARATUS, AND PROGRAM PRODUCT

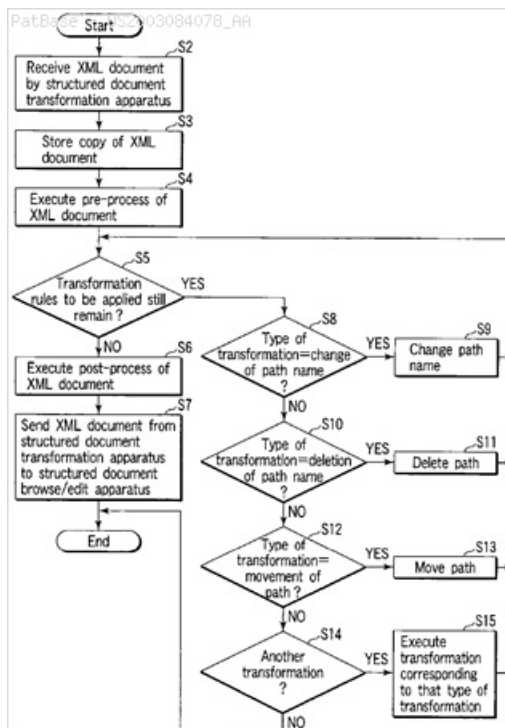
Abstract: A method, apparatus, and computer program product for performing bidirectional transformation between a first structured document and a second structured document is disclosed. A transformation rule having primitive rules each of which is applicable to respective one of elements specified in units of paths within the first structured document is prepared. A forward transformation is performed, which transforms the first structured document into the second structured document in accordance with the transformation rule. At that time, a transformation record is created. The record contains which primitive rules were applied and which paths were transformed in the forward transformation. The transformed second structured document may be edited by an application-side. After that, a backward transformation is performed, which transforms the second structured document into the first structured document with referral to the transformation record, the transformation rule, and the first structured document.

Classifications:**International (IPC 8-9):** G06F12/00 G06F15/00 G06F17/00

G06F17/21 G06F17/22 (Advanced/Invention);

G06F12/00 G06F15/00 G06F17/00 G06F17/21

G06F17/22 (Core/Invention)

International (IPC 1-7): G06F12/00 G06F15/00 G06F17/21**CPC:** G06F17/2247 G06F17/2264**European:** G06F17/21F8 G06F17/22M G06F17/22T**US:** 707/513 715/234 715/239 715/249 715/255 715/500 715/501.1 715/513 715/523**Family:**

Publication number	Publication date	Application number	Application date
JP2002342316 A2	20021129	JP20010151603	20010521
JP3692054 B2	20050907	JP20010151603	20010521
US2003084078 AA	20030501	US20020151164	20020521
US2006168519 AA	20060727	US20060387849	20060324
US7073120 BB	20060704	US20020151164	20020521
US7228498 BB	20070605	US20060387849	20060324

Priority:

JP20010151603 20010521

US20020151164 20020521

US20060387849 20060324

Probable Assignee: TOSHIBA KK**Assignee(s):** (std): TOSHIBA CORP ; TOSHIBA KK**Assignee(s):** KABUSHIKI KAISHA TOSHIBA**Inventor(s):** (std): KIMURA TETSURO ; TORII OSAMU ; SEGAWA JUNICHI ; KIMURA TETSUO**Agent(s):** FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP**6) Family number: 55071106 (US2013290828A)**

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Title: EXTRACTING A PORTION OF A DOCUMENT, SUCH AS A WEB PAGE

Abstract: A facility for extracting visual contents of a page is described. The facility renders a page including visual contents, the rendered page including an extraction control. In response to user input activating the extraction control, the facility (1) selects a proper subset of the visual contents of the page that are specified by a publisher on the page for extraction using

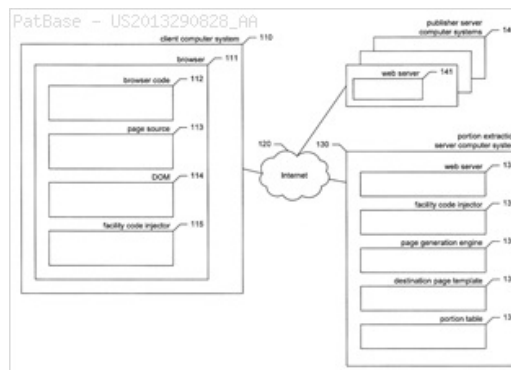
the extraction control, and (2) transmits a representation of the selected subset of visual contents for storage independent of the page.

Classifications:

International (IPC 8-9): G06F17/00 G06F17/30 (Advanced/Invention)

CPC: G06F17/30047 G06F17/30277 G06F17/30864

US: 715/234



Family:

Publication number	Publication date	Application number	Application date
US2013290828 AA	20131031	US20120460632	20120430
US2018052843 AA	20180222	US20170667944	20170803
US9753926 BB	20170905	US20120460632	20120430

Priority:

US20120460632 20120430 US20170667944 20170803

Probable Assignee: SALESFORCECOM INC

Assignee(s): (std): DAWSON MARK R ; FLAKE GARY W ; MONTGOMERY THOMAS J ; PERKINS KENNETH J ; PASCALE GREGORY T ; CLIPBOARD INC ; SALESFORCE COM INC

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Inventor(s): (std): DAWSON MARK R ; FLAKE GARY W ; MONTGOMERY THOMAS J ; PASCALE GREGORY T ; PERKINS KENNETH J

Agent(s): WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP

7) Family number: 54263419 (US2013174021A)

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Title: CONFLICT RESOLUTION OF CSS DEFINITION FROM MULTIPLE SOURCES

Abstract: Conflict resolution of cascading style sheet definitions from multiple sources includes storing a rule for a rewriting of cascading style sheet definitions and intercepting, within a proxy component including a processor, a client server communication of a web page request, wherein the web page request originates from a client, and wherein a response to the web page request includes at least two cascading style sheet definitions. At least one of the two cascading style sheet definitions is rewritten based on the rule, resulting in non-conflicting cascading style sheet definitions. The non-conflicting cascading style sheet definitions are provided together with related content to the client.

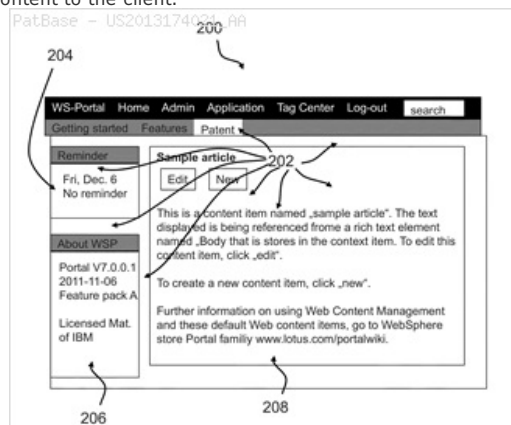
Classifications:

International (IPC 8-9): G06F13/00 G06F13/14 G06F17/22

G06F3/048 (Advanced/Invention)

CPC: G06F17/227

US: 715/235



Family:

Publication number	Publication date	Application number	Application date
CN104025068 A	20140903	CN201280065685	20121106
CN104025068 B	20170613	CN201280065685	20121106
US2013174021 AA	20130704	US20120726374	20121224
WO13102802 A1	20130711	WO20121B56173	20121106

Priority:

EP20120150002 20120102 WO20121B56173 20121106

Probable Assignee: IBM

Assignee(s): (std): IBM ; IBM DEUTSCHLAND ; IBM JAPAN

Assignee(s): IBM JAPAN LTD ; INT BUSINESS MACHINES CORP ; IBM DEUTSCHLAND GMBH

Inventor(s): (std): BUCHWALD JAN PAUL ; SCHNITZLER PETER B

Agent(s): KLEIN HANS JOERG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK

8) Family number: 45962863 (US2010180194A)

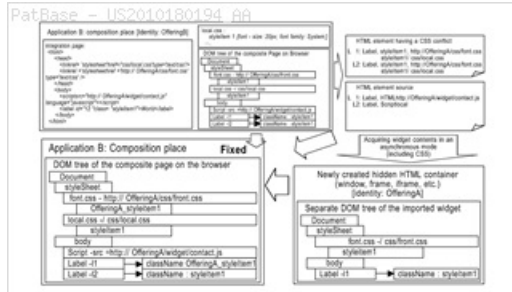
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Title: METHOD AND APPARATUS FOR SOLVING UI STYLE CONFLICTS IN WEB APPLICATION COMPOSITION

Abstract: A method and apparatus for solving UI style conflicts in web application composition. The method includes the steps of: detecting, in the runtime environment of a web browser, a page element referring to duplicate UI style definitions in a web composite page; determining the UI style definition referred to by the page element in an imported widget or a local page from which it originates; and relating the page element and the determined corresponding UI style definition in the web composite page, so as to solve the UI style conflict.

Classifications:

International (IPC 8-9): G06F17/00 G06F17/27 G06F17/30 G06F3/01 G06F9/44 (Advanced/Invention); G06F17/30 (Advanced/Non-invention); G06F17/00 G06F17/30 G06F3/01 G06F9/44 (Core/Invention)
CPC: G06F9/44536 G06F9/44552 G06F8/71 G06F8/38
European: G06F8/38 G06F8/71
US: 715/234 715/234P 715/235 715/236 715/243 715/248 715/760 715/760S

**Family:**

Publication number	Publication date	Application number	Application date
■ CN101777048 A	20100714	CN200910002661	20090114
■ CN101777048 B	20130403	CN200910002661	20090114
■ US2010180194 AA	20100715	US20100685025	20100111
■ US8397159 BB	20130312	US20100685025	20100111

Priority:

CN200910002661 20090114

Probable Assignee: IBM**Assignee(s):** (std): IBM ; JI PENG ; YANG SHUN XIANG ; ZHANG GUAN QUN**Assignee(s):** INT BUSINESS MACHINES CORP**Inventor(s):** (std): GUANQUN ZHANG ; PENG JI ; SHUNXIANG YANG ; YANG SHUNXIANG ; ZHANG GUANQUN ; ZHANG GUAN QUN ; YANG SHUN XIANG ; JI PENG**Agent(s):** IBM TJ WATSON RESEARCH CENTER CORP; THOMAS; FLEIT GIBBONS GUTMAN BONGINI AND BIANCO PL**9) Family number: 50440694** (US2012005429A)

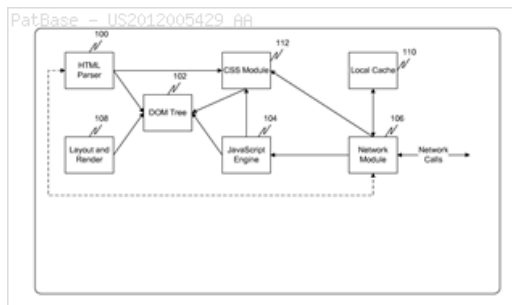
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Title: REUSING STYLE SHEET ASSETS

Abstract: In a first embodiment of the present invention, a method is provided comprising: parsing a document, wherein the document contains at least one reference to a style sheet; for each referenced style sheet: determining if a ruleset corresponding to the referenced style sheet is contained in a first local cache; if the ruleset corresponding to the style sheet is contained in the first local cache; if the referenced style sheet is not contained in the first local cache, parsing the referenced style sheet to derive a ruleset; and applying the ruleset(s) to the document to derive a layout for displaying the document.

Classifications:

International (IPC 8-9): G06F12/08 G06F17/00 G06F17/27 (Advanced/Invention)
CPC: G06F17/30899
US: 711/118 711/118P 711/E12.017 711/E12.017S 715/234 715/234S 715/235 715/236 715/239

**Family:**

Publication number	Publication date	Application number	Application date
■ US2012005429 AA	20120105	US20100827538	20100630
■ US8375296 BB	20130212	US20100827538	20100630

Priority:

US20100827538 20100630

Probable Assignee: SAMSUNG ELECTRONICS CO LTD**Assignee(s):** (std): ACIICMEZ ONUR ; CHENG DOREEN ; KALASAPUR SWAROOP S ; SAMSUNG ELECTRONICS CO LTD ; SONG HENRY**Assignee(s):** SAMSUNG ELECTRONICS CO**Inventor(s):** (std): SONG HENRY ; KALASAPUR SWAROOP S ; CHENG DOREEN ; ACIICMEZ ONUR**Agent(s):** MICHAEL; SHERMAN AND ZARRABIAN LLP; KENNETH L