Claim Chart For Sun Showing Indirect Infringement Of The '906 Patent Through Java and JavaFX Authoring Tools and Direct and/or Indirect Infringement via Its Applications to View Java and JavaFX Content

Claim	Claim Language	Evidence
1pre	A method for running an application program in a computer network environment, comprising:	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • **JavaFX SDK** o *See* Java FX FAQs, http://www.javafx.com/faq/. "The SDK provides the compiler and runtime libraries required for building JavaFX applications." o *See* JavaFX, http://www.sun.com/software/javafx/features.xml. "[JavaFX 1.2 SDK] includes the JavaFX compiler and runtime tools, graphics, media, Web services, and rich text libraries to create RIAs for the desktop, browser and mobile platforms." • **NetBeans IDE 6.5.1 for JavaFX 1.2** o *See* Java FX FAQs, http://www.javafx.com/faq/. "You may use NetBeans IDE 6.5.1 for JavaFX 1.2 for developing JavaFX applications." o *See* JavaFX, http://www.sun.com/software/javafx/features.xml. "[NetBeans IDE 6.5.1 for JavaFX 1.2 p]rovides a sophisticated integrated development environment for building, previewing, and debugging JavaFX applications." • **JavaFX Production Suite** o *See* Java FX FAQs, http://www.javafx.com/faq/. "A suite of tools and plugins for creative tools that allow graphical assets to be exported to JavaFX applications. . . . . The JavaFX Production Suite gives designers and Web developers an iterative and collaborative workflow for creating rich JavaFX applications and content."

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		o *See* JavaFX, http://www.sun.com/software/javafx/features.xml. "A suite of tools and plug-ins for creative tools that allows graphical assets to be exported to JavaFX applications." • **Java FX Platform** o *See* Java FX FAQs, http://www.javafx.com/faq/. "[Java FX Platform] includes the JavaFX SDK, NetBeans IDE 6.5.1 for JavaFX 1.2, JavaFX 1.2 Production Suite." • **Java FX Mobile** o *See* Sun Software, http://www.sun.com/software/index.jsp?cat=Java%20Technologies&tab=3. "JavaFX Mobile is a complete, pre-integrated software system for advanced mobile devices designed to enable developers to author rich, high-impact content and network-based services. Built around open and standards-based technologies, JavaFX Mobile enables control and flexibility for the mobile ecosystem." • **Java Development Toolkit (JDK)** o *See* What is Java Virtual Machine?, http://java.com/en/download/faq/jvm.xml. "[JDK] is a bundle of software that you can use to develop Java based applications. . . . Java Development Kit is needed for developing java applications. . . . It includes JRE, set of API classes, Java compiler, Webstart and additional files needed to write Java applets and applications." • **Java Application Verification Kit (AVK) for the Enterprise** o *See* Compatibility & Java Verification, http://java.sun.com/j2ee/verified/. "The AVK is available to help you test your application for correct use of J2EE APIs and to maintain portability across J2EE-compatible application servers." • **Java Platform, Enterprise Edition (Java EE)**

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		o *See* Java EE at a Glance, http://java.sun.com/javaee/. "Java Platform, Enterprise Edition (Java EE) 6 is the industry standard for enterprise Java computing. Utilize the new, lightweight Java EE 6 Web Profile to create next-generation web applications, and the full power of the Java EE 6 platform for enterprise applications." o *See* Sun Software, http://www.sun.com/software/index.jsp?cat=Java%20Technologies&tab=3. "Defines the standard for developing component-based multitier enterprise applications. Features include Web services support and development tools (SDK)." • **Java Platform, Standard Edition (Java SE)** o *See* Sun Software, http://www.sun.com/software/index.jsp?cat=Java%20Technologies&tab=3. "Provides a complete environment for applications development on desktops and servers. It also serves as the foundation for the Java Platform, Enterprise Edition (Java EE) and Java Web Services." • **Java SE for Business** o *See* Sun Software, http://www.sun.com/software/index.jsp?cat=Java%20Technologies&tab=3. "Java SE for Business is a new product based on Sun's Java SE that offers customers faster access to critical fixes, a longer roadmap for support, and enterprise features designed to reduce the cost of deployment." • **Java Real-Time System** o *See* Sun Software, http://www.sun.com/software/index.jsp?cat=Java%20Technologies&tab=3. "When critical functions require precise, predictable execution - then Java Real-Time System is

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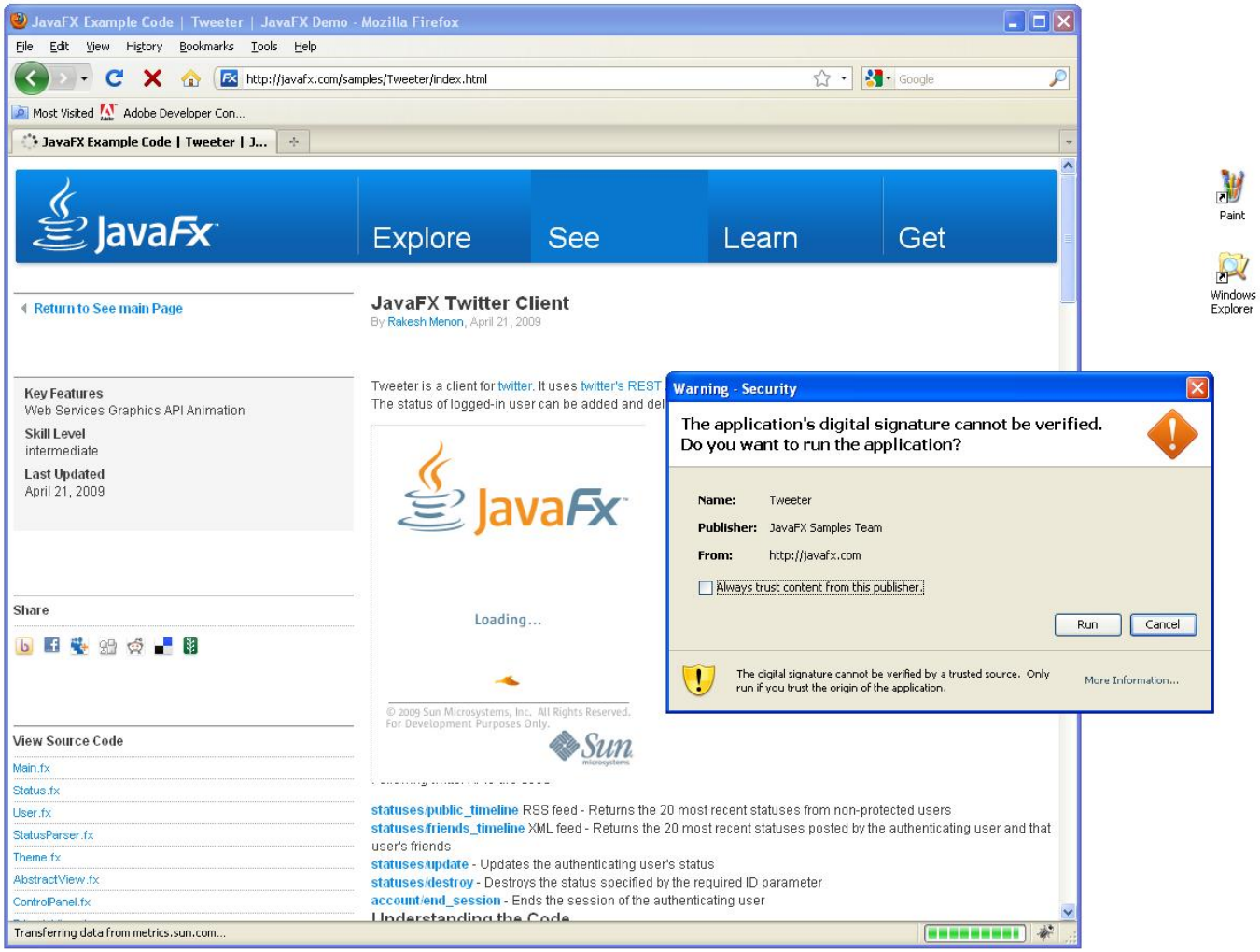
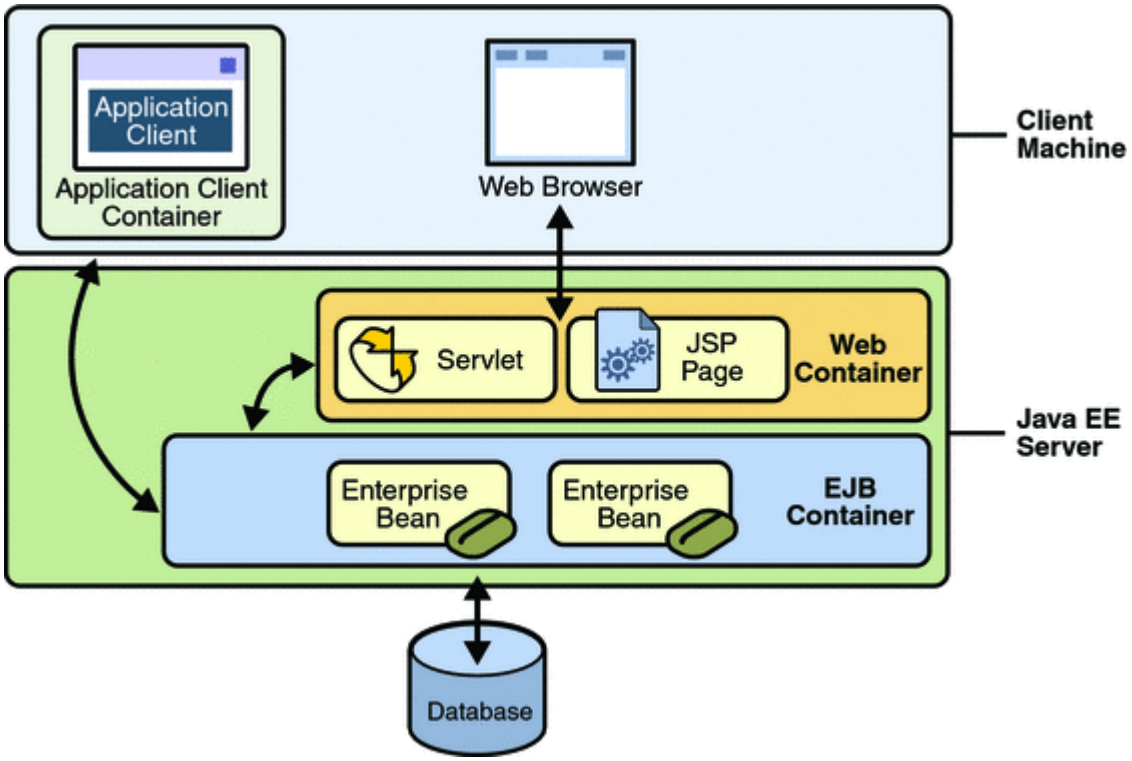
		the right choice. Strict priority enforcement, a real-time garbage collector, and other features enable developers unparalleled control over their Java environment and their application. For applications ranging from robotic control to defined sub-millisecond response times - Java Real-Time System is right for you." • **Java Platform, Micro Edition (Java ME)** o *See* Sun Software, http://www.sun.com/software/index.jsp?cat=Java%20Technologies&tab=3. "[Java ME p]rovides an application environment specifically addressing the needs of commodities in the growing consumer and embedded space, including mobile phones, pagers, personal digital assistants, set-top boxes, and vehicle telematics systems." and any other tools used to create Java, JavaFX, or similar content. For example, users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) run an application program in a computer network environment. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

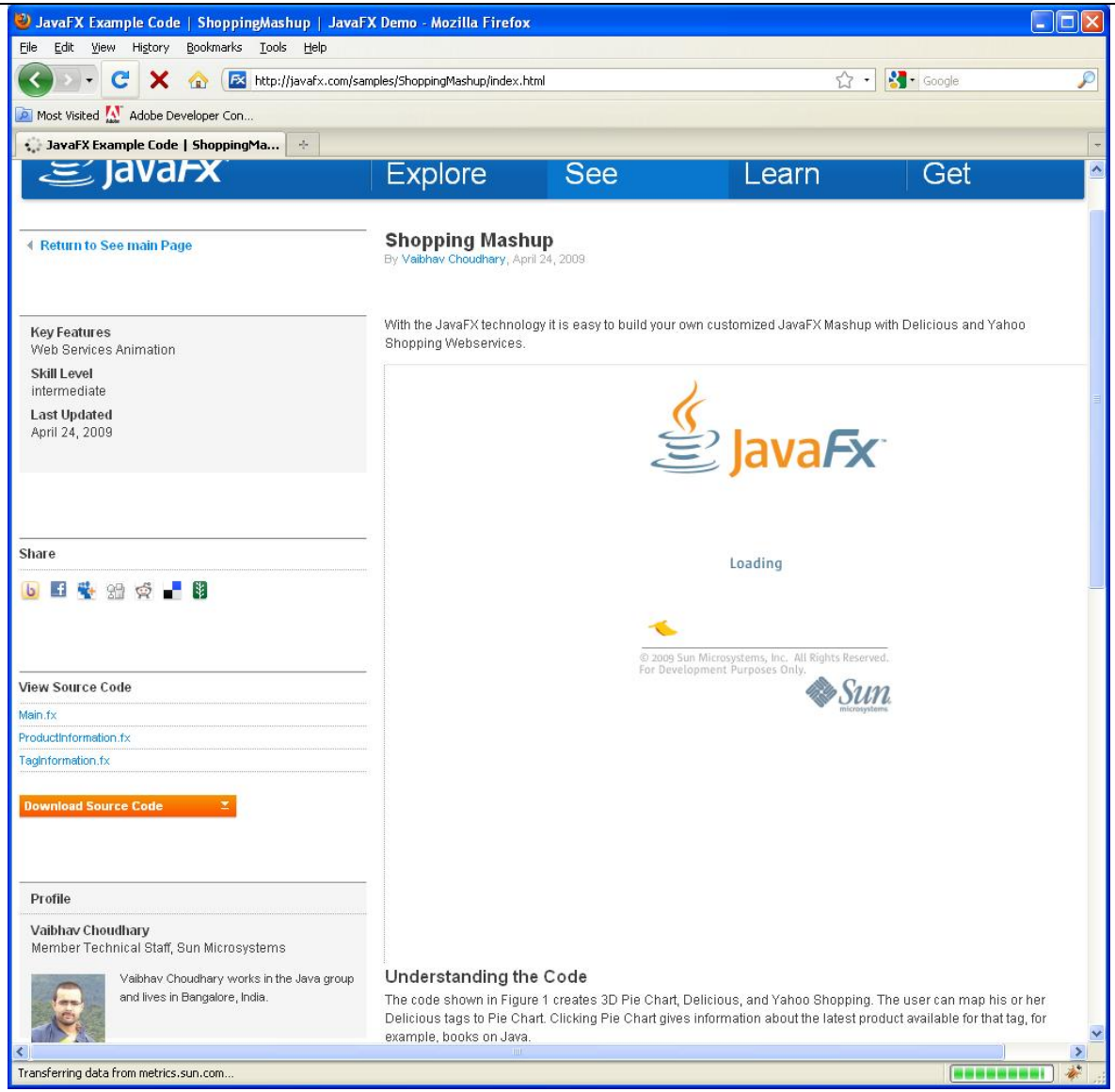
Claim	Claim Language	Evidence
		 Source: JavaFX Example Code ShoppingMashup,

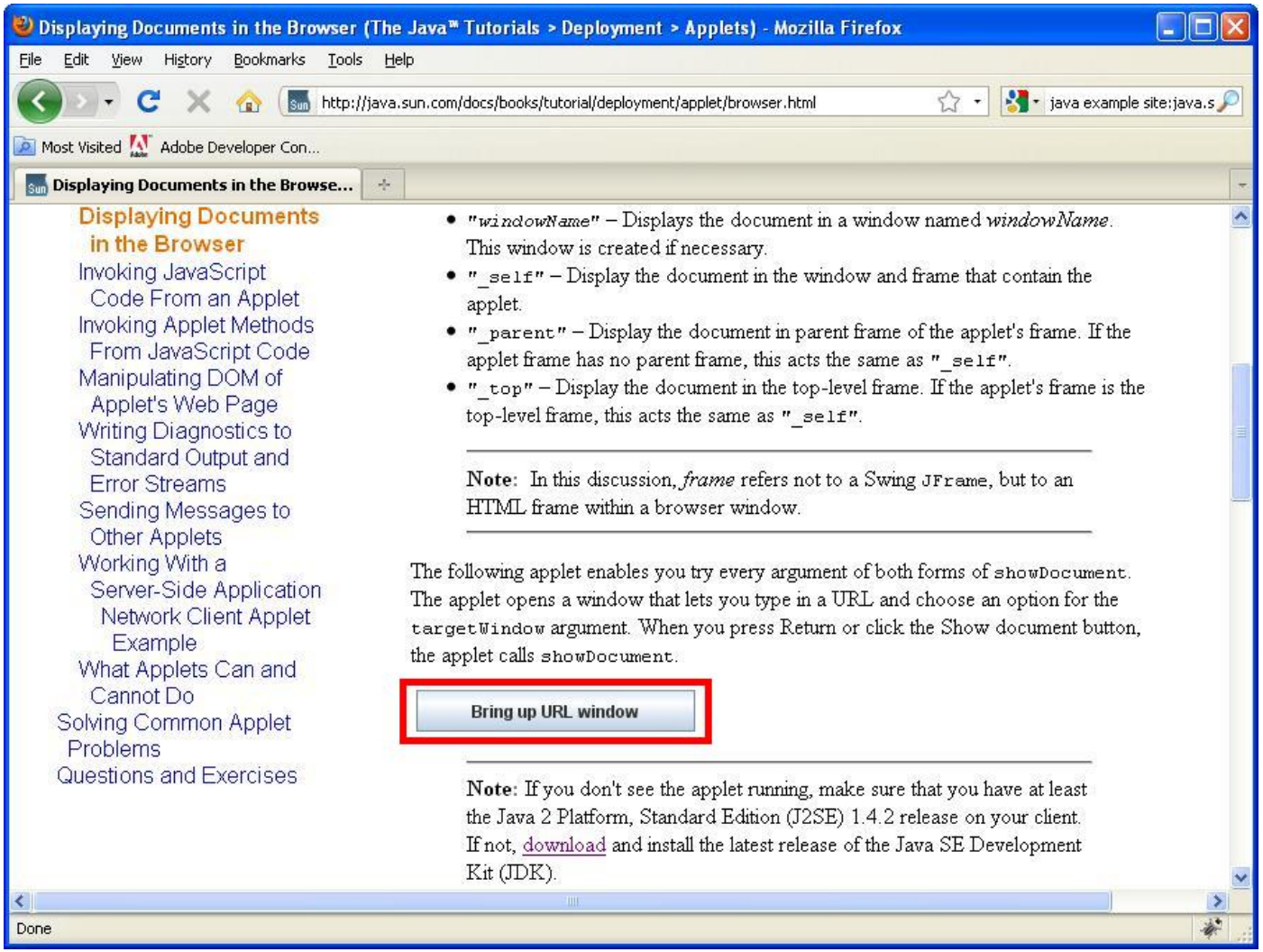
Claim	Claim Language	Evidence
		http://javafx.com/samples/ShoppingMashup/index.html.  Source: JavaFX Example Code Twitter, http://javafx.com/samples/Tweeter/index.html.

Claim	Claim Language	Evidence
		 Source: Securing Enterprise Beans, http://java.sun.com/javaee/6/docs/tutorial/doc/bnbyl.html.

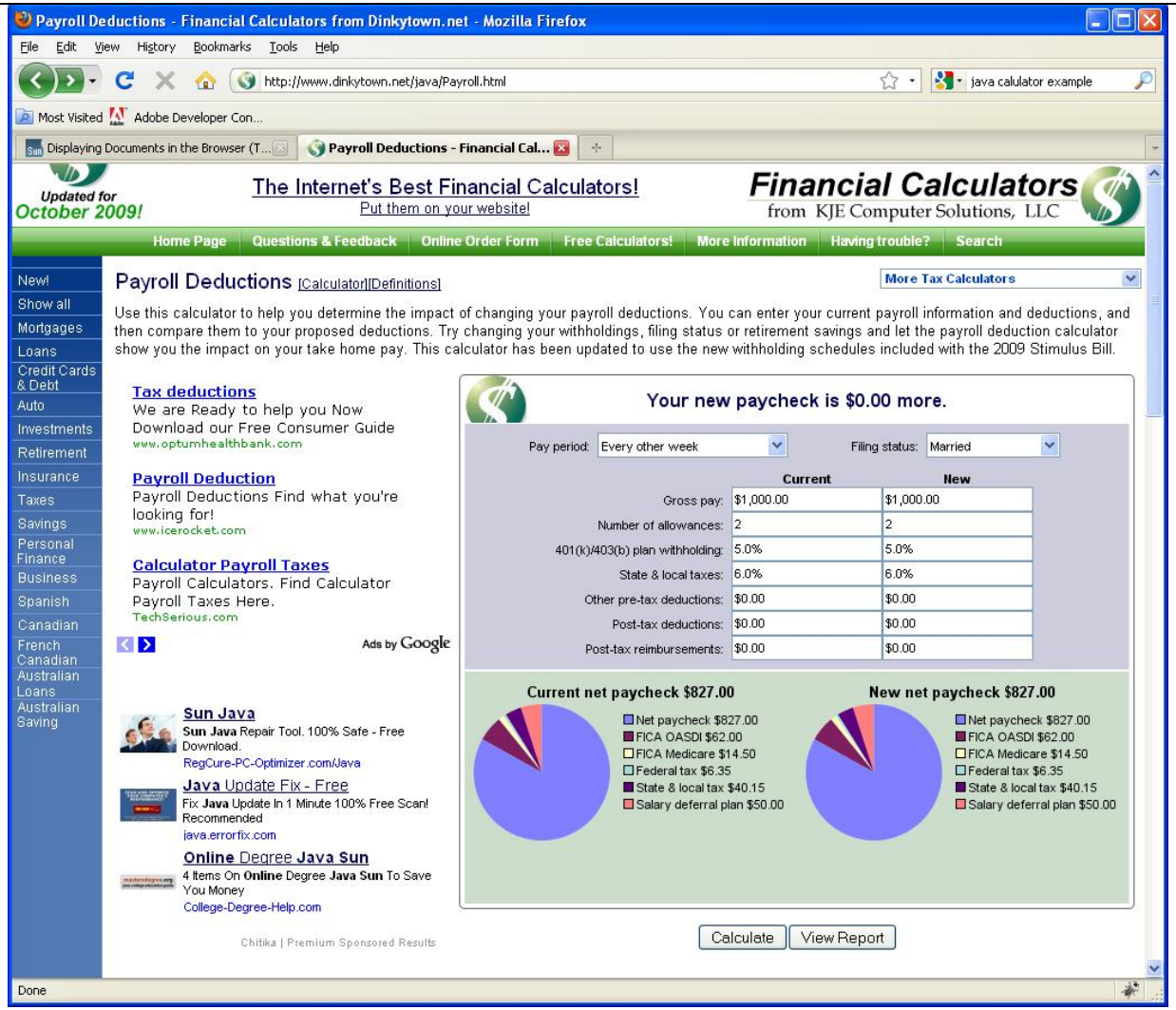
Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence

Claim	Claim Language	Evidence
		

Claim	Claim Language	Evidence
		Source: Shopping Mashup, http://javafx.com/samples/ShoppingMashup/index.html. 

Claim	Claim Language	Evidence
		Source: Displaying Documents in a Browser, http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html.

Claim	Claim Language	Evidence
		

Source: Payroll Deductions - Financial Calculators from Dinkytown.net,

Claim	Claim Language	Evidence
		http://www.dinkytown.net/java/Payroll.html. **Citation 1pre(8):** Learn about JAVA Technology, http://java.com/en/about/. "Java technology's versatility, efficiency, platform portability, and security make it the ideal technology for network computing. From laptops to datacenters, game consoles to scientific supercomputers, cell phones to the Internet, Java is everywhere!" **Citation 1pre(9):** What is Java?, http://www.java.com/en/download/whatis_java.jsp. "Java allows you to play online games, chat with people around the world, calculate your mortgage interest, and view images in 3D, just to name a few. It's also integral to the intranet applications and other e-business solutions that are the foundation of corporate computing." **Citation 1pre(10):** Learn about JAVA Technology, http://java.com/en/about/. "JavaFX extends your web experience by delivering rich media and content across all the screens of your life. As users, you will be able to run JavaFX applications in a browser or drag and drop them onto the desktop." **Citation 1pre(11):** Learn about JAVA Technology, http://java.com/en/about/. "JavaFX . . . [a]llows developers to integrate vector graphics, animation, audio, and video Web assets into a rich, interactive, immersive application." **Citation 1pre(12):** Java FX FAQs, http://www.javafx.com/faq/. "JavaFX is an expressive rich client platform for creating and delivering rich Internet experiences across all screens of your life." **Citation 1pre(13):** Java FX FAQs, http://www.javafx.com/faq/. "JavaFX is a platform for developing

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		rich, expressive that can be deployed across desktop and mobile devices, and in the future, will be available on TVs and other devices as well." **Citation 1pre(14):** Java Technology, http://www.sun.com/software/learnabout/java/. "The Java platform is the ideal platform for network computing. Running across all platforms -- from servers to cell phones to smart cards -- Java technology unifies business infrastructure to create a seamless, secure, networked platform for your business." **Citation 1pre(15):** What Applets Can and Cannot Do, http://java.sun.com/docs/books/tutorial/deployment/applet/security.html. "Applets are loaded on a client when the user visits a page containing an applet." In addition, for the reasons set forth above, the applications listed below, either alone and/or in combination with Java and/or JavaFX authoring tools, also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement): • **Java Runtime Environment** o *See* What is the difference between JRE and JDK?, http://www.java.com/en/download/faq/jre_jdk.xml. "Java Run Time Environment is a plug-in needed for running java programs. . . . It includes JVM [(Java Virtual Machine)], Core libraries and other additional components to run applications and applets written in Java." o *See* Applet's Execution Environment. http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "An applet runs in the context of a browser. The Java Plug-in software in the browser

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		controls the launch and execution of applets. . . . The Java Plug-in software creates a worker thread for every applet. It launches an applet in an instance of the Java Runtime Environment (JRE) software." • **Java Virtual Machine** o *See* What is Java Virtual Machine?, http://java.com/en/download/faq/jvm.xml. "The Java Virtual Machine is only one aspect of Java software that is involved in web interaction. The Java Virtual Machine is built right into your Java software download, and helps the Sun JRE run Java applications." o *See* Helpful Concepts and Definitions, http://java.com/en/download/faq/helpful_concepts.xml. "Java applets provide interactive features in a web browser using a Java Virtual Machine (JVM)." • **Java Card Technology** o o See Sun Software, http://www.sun.com/software/index.jsp?cat=Java%20Technologies&tab=3. "[Java Card Technology p]rovides a secure environment for applications that run on smart cards and other devices with very limited memory and processing capabilities." • **Java Plug-in** o *See* Java Plug-in Technology, http://java.sun.com/products/plugin/. "Java Plug-in technology, included as part of the Java Runtime Environment, Standard Edition (Java SE), establishes a connection between popular browsers and the Java platform. This connection enables applets on Web sites to be run within a browser on the desktop."
1a	providing at least one client	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in a network environment with at

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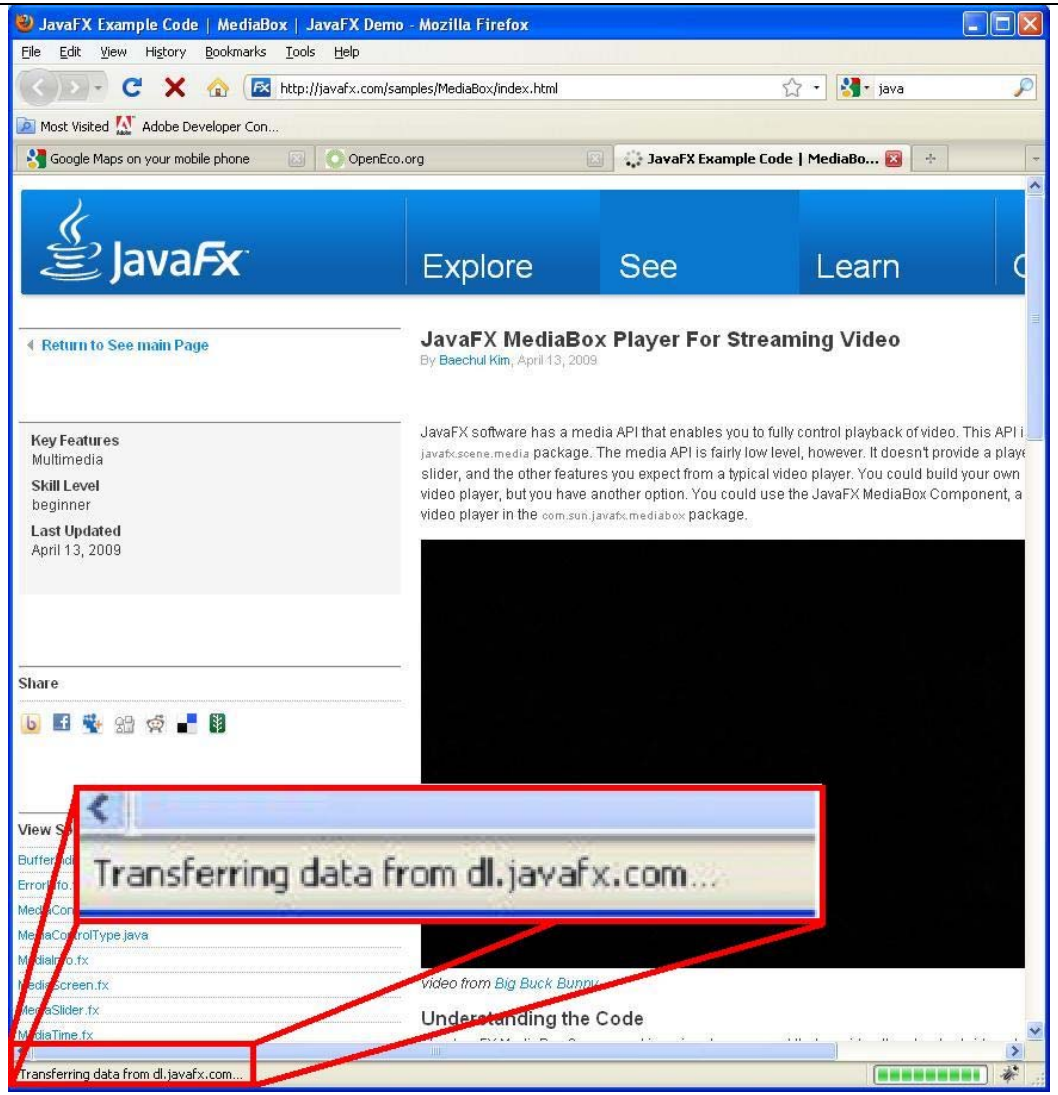
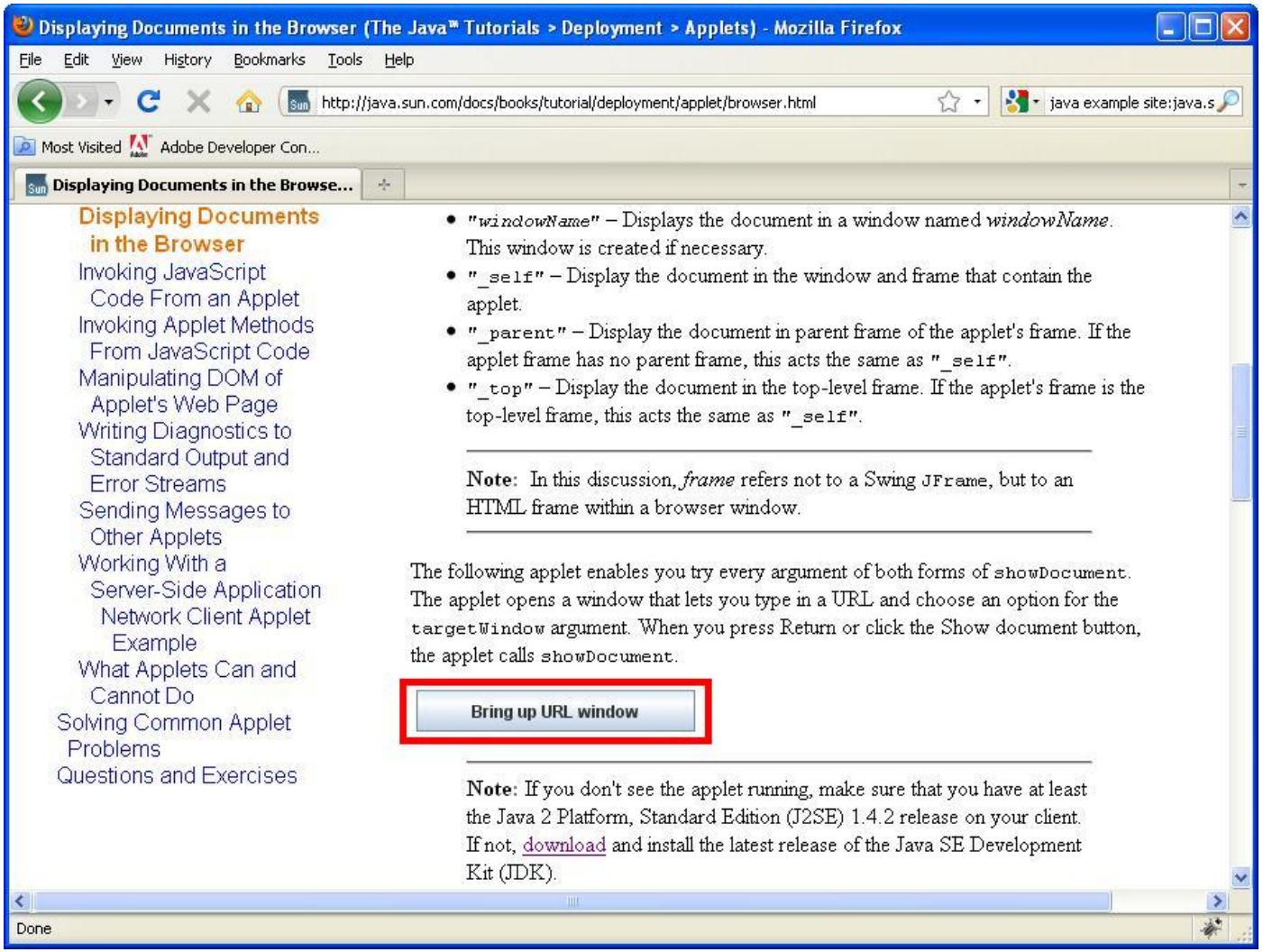
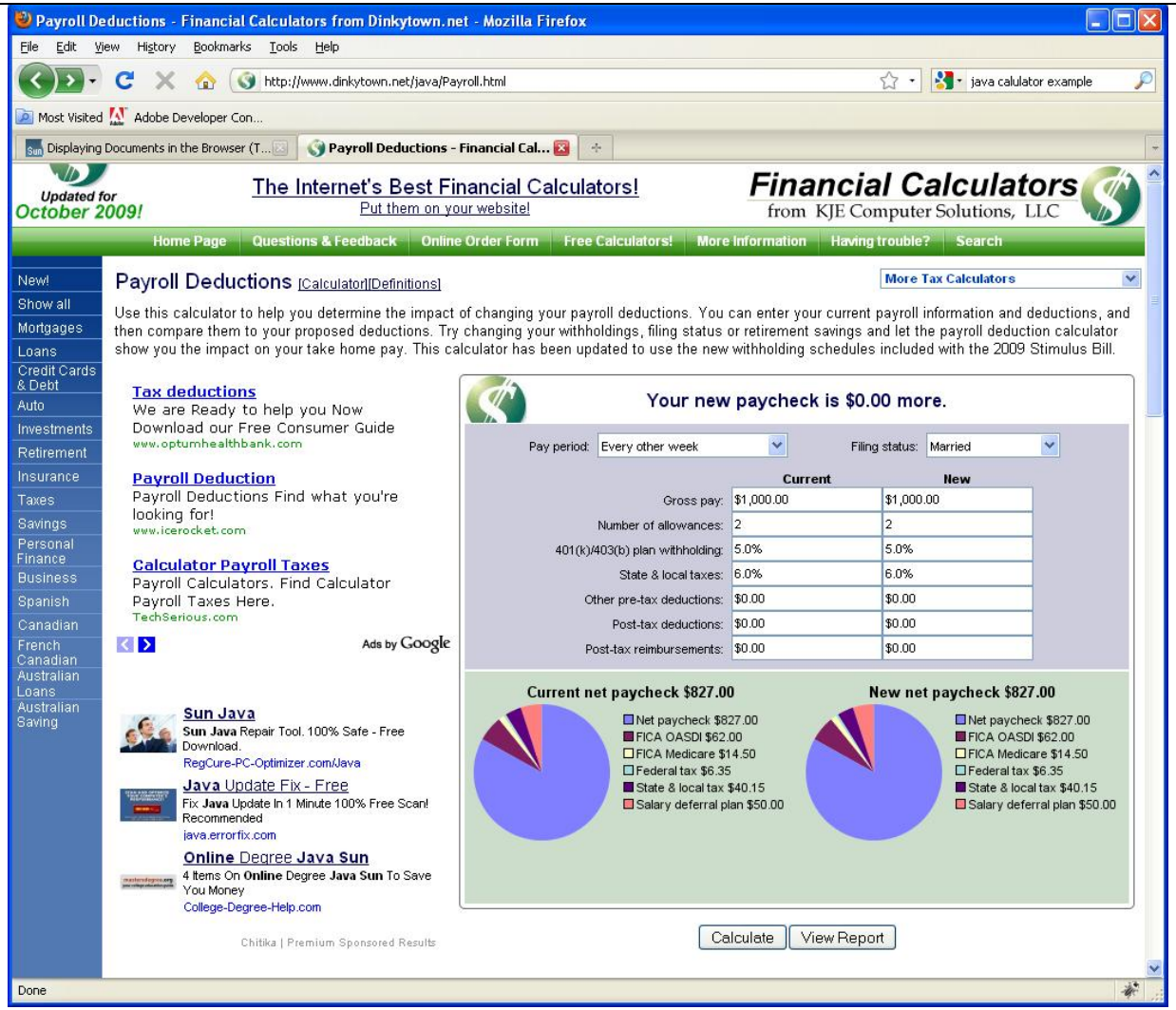
	workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment;	least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video,

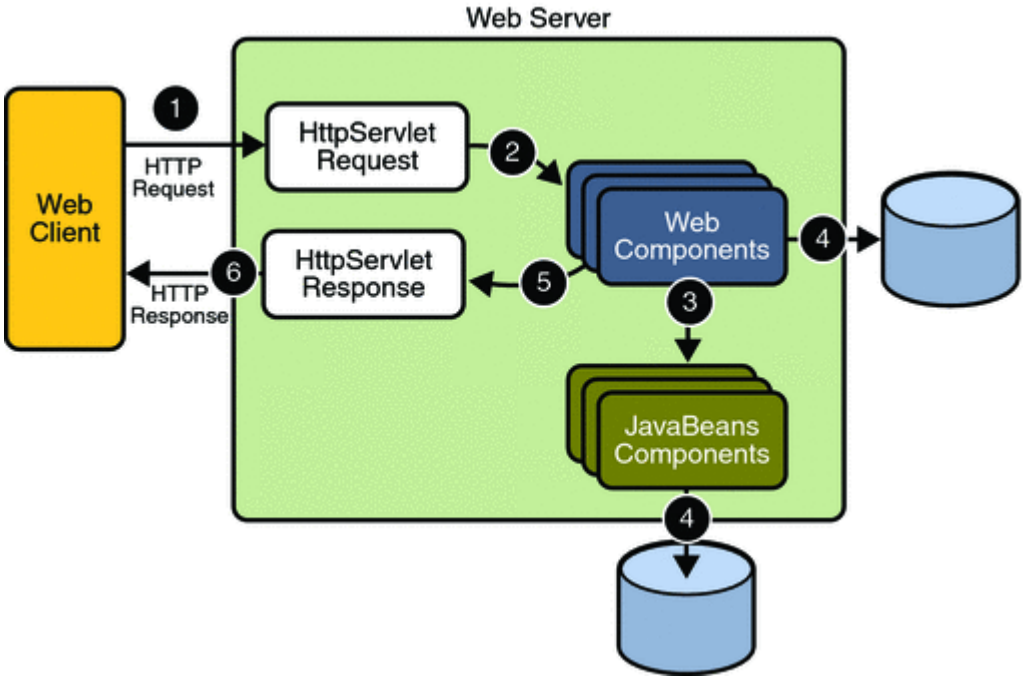
Claim	Claim Language	Evidence
		http://javafx.com/samples/MediaBox/index.html.  Source: JavaFX MediaBox Player For Streaming Video,

Claim	Claim Language	Evidence
		http://javafx.com/samples/MediaBox/index.html. 

Claim	Claim Language	Evidence
		Source: Displaying Documents in a Browser, http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html.

Claim	Claim Language	Evidence
		

Source: Payroll Deductions - Financial Calculators from Dinkytown.net,

Claim	Claim Language	Evidence
		http://www.dinkytown.net/java/Payroll.html.  Source: Java EE 5 Tutorial, http://docs.sun.com/app/docs/doc/819-3669/bncas?l=ja&a=view.

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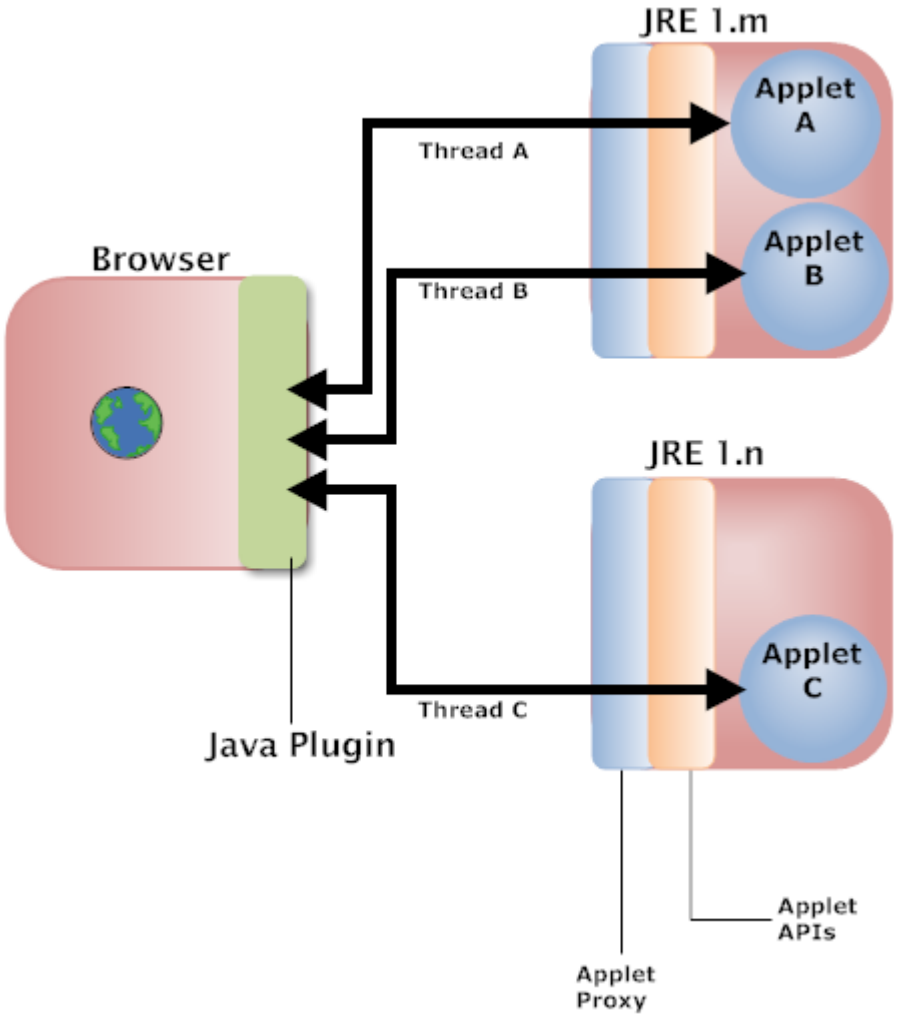
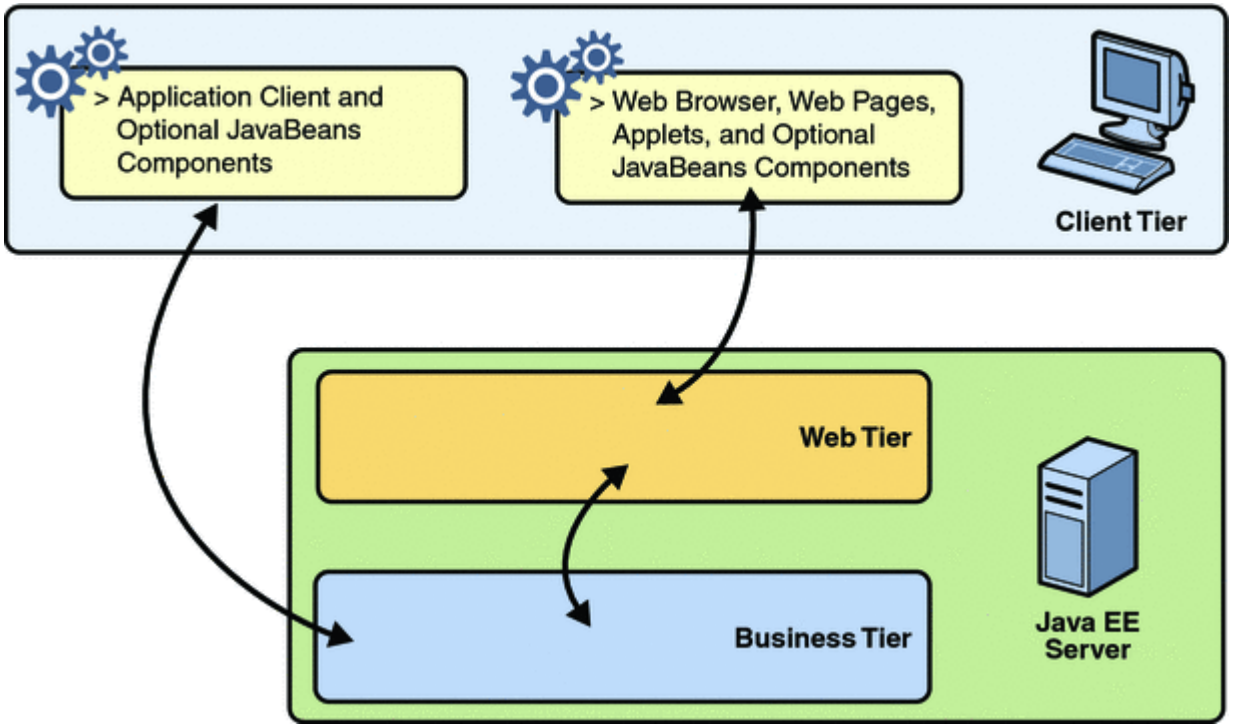
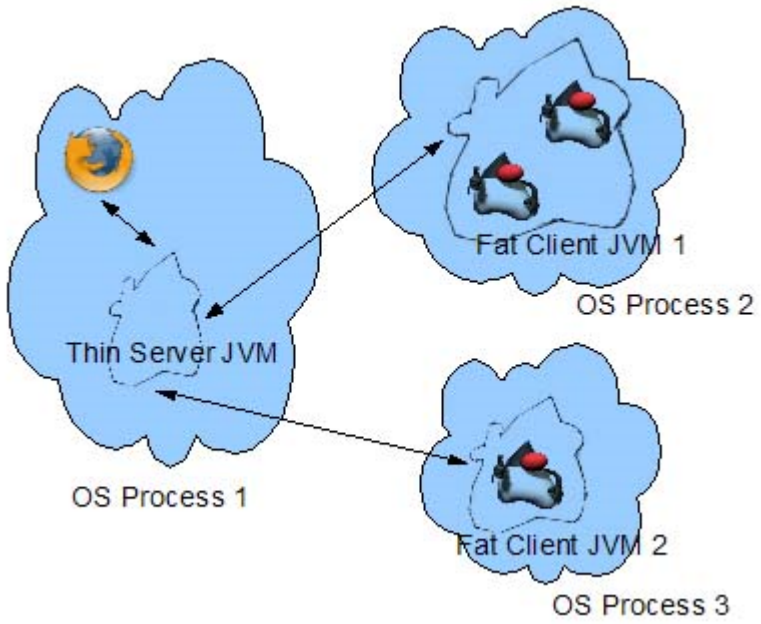
		 Source: Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html.

Claim	Claim Language	Evidence
		 Source: Distributed Multitiered Applications, http://java.sun.com/javaee/6/docs/tutorial/doc/bnaay.html.

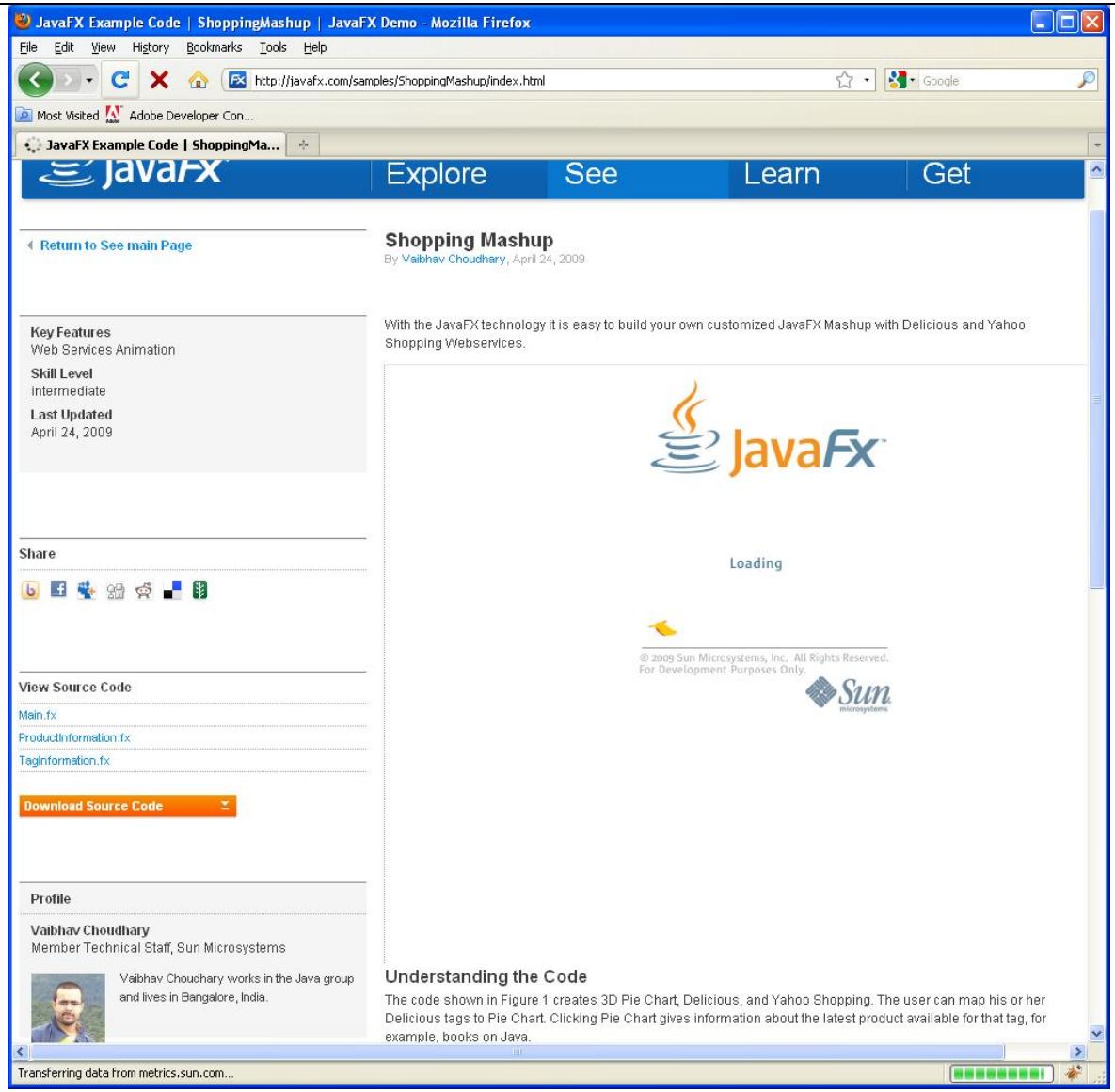
Claim	Claim Language	Evidence
		 Source: What is a Socket?, http://java.sun.com/docs/books/tutorial/networking/sockets/definition.html.  Source: Next Generation in Applet Java Plug-in Technology,

Claim	Claim Language	Evidence
		http://java.sun.com/developer/technicalArticles/javase/newapplets/. **Citation 1a(10):** Learn about JAVA Technology, http://java.com/en/about/. "Java technology's versatility, efficiency, platform portability, and security make it the ideal technology for network computing. From laptops to datacenters, game consoles to scientific supercomputers, cell phones to the Internet, Java is everywhere!" **Citation 1a(11):** Java Technology, http://www.sun.com/software/learnabout/java/. "The Java platform is the ideal platform for network computing. Running across all platforms -- from servers to cell phones to smart cards -- Java technology unifies business infrastructure to create a seamless, secure, networked platform for your business." **Citation 1a(12):** Writing the Server Side of a Socket, http://java.sun.com/docs/books/tutorial/networking/sockets/clientServer.html. "This section shows you how to write a server and the client that goes with it. . . . The example consists of two independently running Java programs: the client program and the server program." **Citation 1a(13):** Lesson: All about Sockets, http://java.sun.com/docs/books/tutorial/networking/sockets/. "In client-server applications, the server provides some service, such as processing database queries or sending out current stock prices. The client uses the service provided by the server, either displaying database query results to the user or making stock purchase recommendations to an investor." In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this

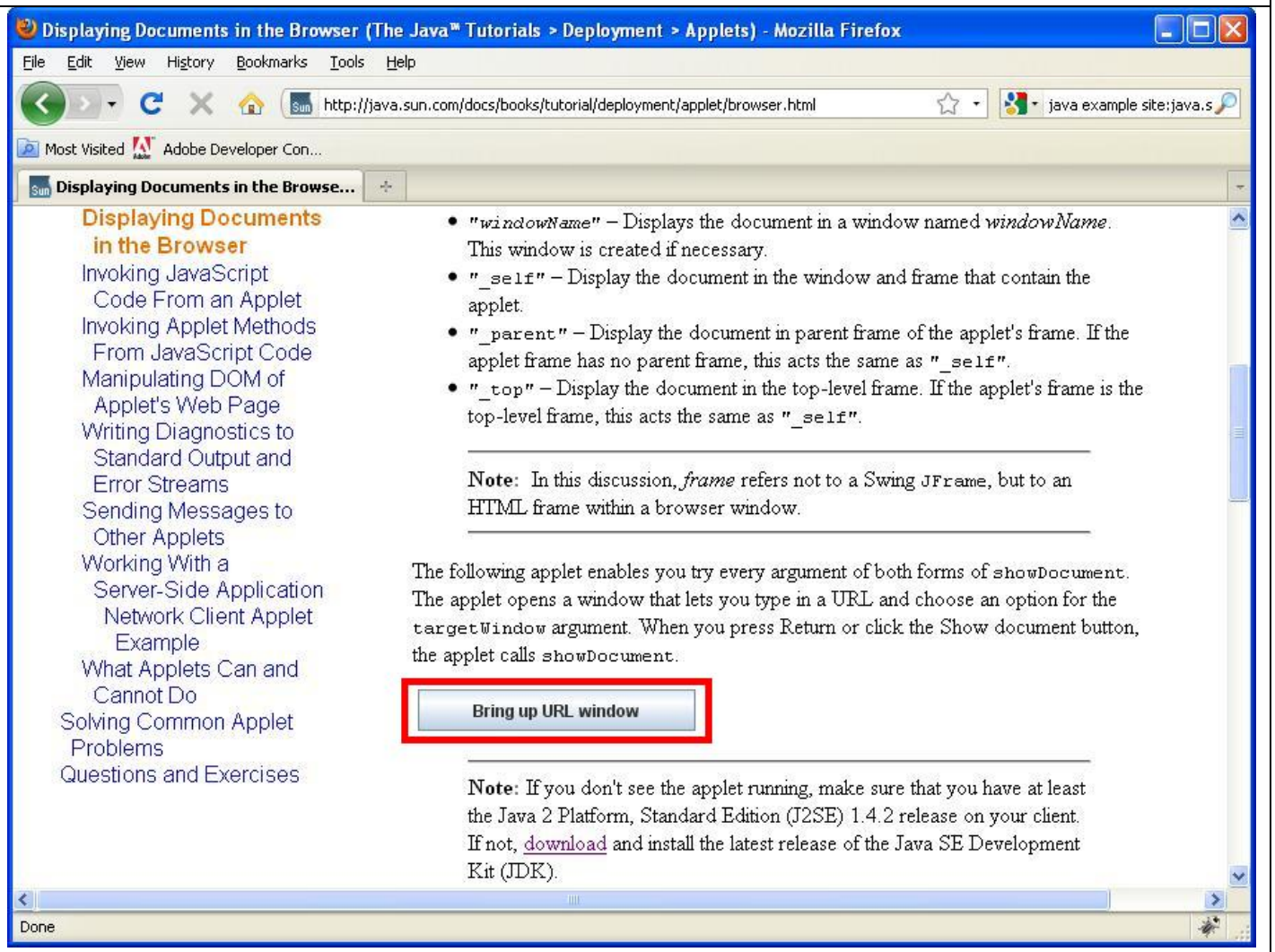
Claim	Claim Language	Evidence
		element directly and indirectly (through contributory and/or induced infringement).
1b	executing, at said client workstation, a browser application, that parses a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) execute, at said client workstation, a browser application that parses a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source:

Claim	Claim Language	Evidence
		<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"> <head> <title>JavaFX Example Code | MediaBox | JavaFX Demo</title> . . . </head> . . . <body id="tutorials"> . . . </body> </html> "

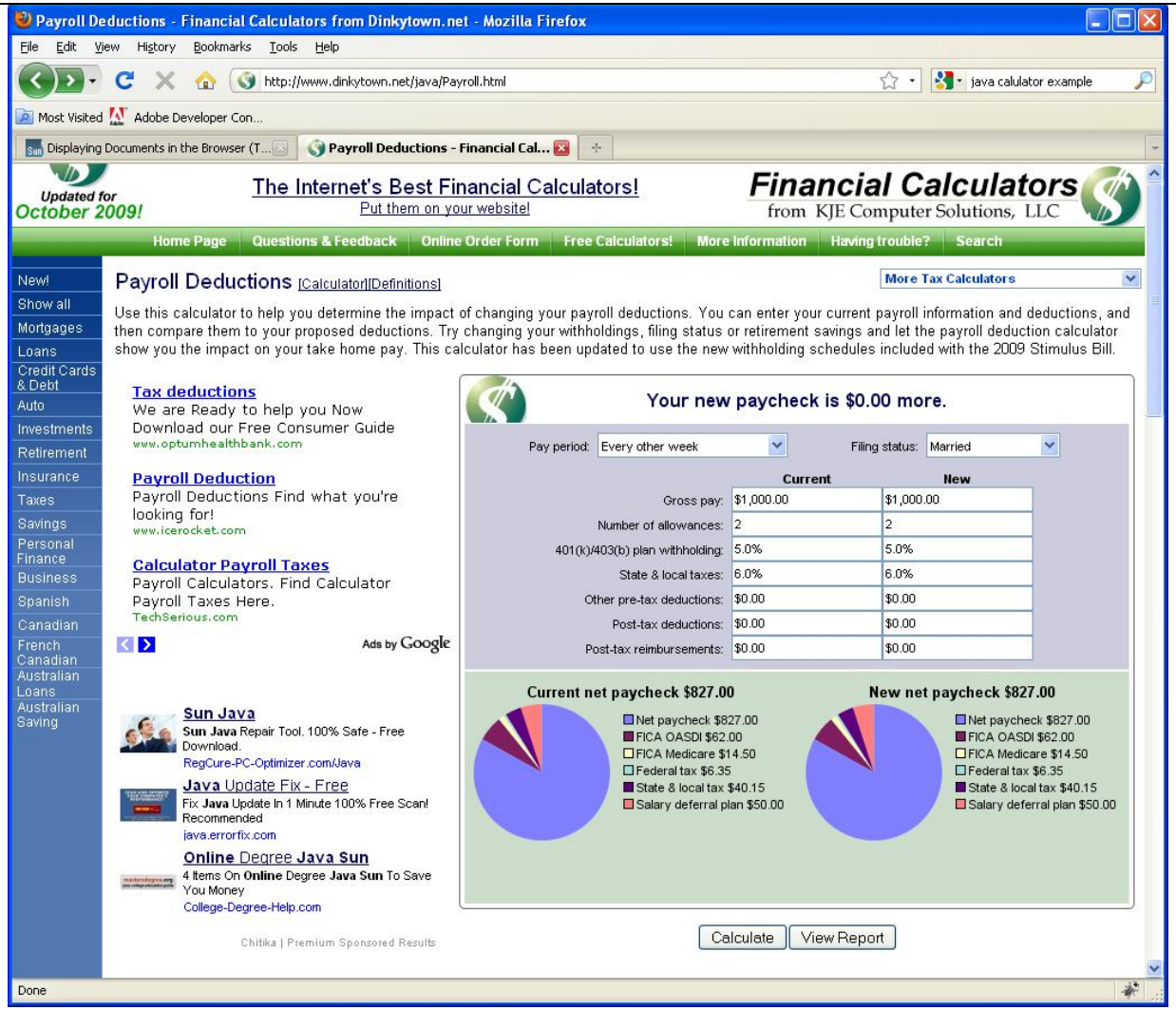
Claim	Claim Language	Evidence
		

Claim	Claim Language	Evidence
		Source: Shopping Mashup, http://javafx.com/samples/ShoppingMashup/index.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"> <head> <title>JavaFX Example Code | ShoppingMashup | JavaFX Demo</title> . . . </head> . . . <body id="tutorials"> . . . </body> </html>

Claim	Claim Language	Evidence
		

Source: Displaying Documents in a Browser, http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html. *See also* the source for this

Claim	Claim Language	Evidence
		page, which includes text formats as shown below, in addition to other text formats which appear in the source: <html> <head> <title>Displaying Documents in the Browser (The Java™ Tutorials > Deployment > Applets) </title> . . . </head> <body onload="load()"> . . . <script language="JavaScript" src="/js/omi/jsc/s_code_remote.js"></script></body> </html>

Claim	Claim Language	Evidence
		

Source: Payroll Deductions - Financial Calculators from Dinkytown.net, http://www.dinkytown.net/java/Payroll.html. *See also* the source for this page, which includes text

Claim	Claim Language	Evidence
		formats as shown below, in addition to other text formats which appear in the source: <html> <head> <title> Payroll Deductions - Financial Calculators from Dinkytown.net </title> <META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=iso8859-1"> . . . </head> <body topmargin=0 leftmargin=0 rightmargin=0 marginwidth=0 marginheight=0 link="#000055" vlink="#0000BB" bgcolor="#FFFFFF" > . . . </BODY> </HTML> **Citation 1b(5):** Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "An applet runs in the context of a browser. The Java Plug-in software in the browser controls the launch and execution of applets. The browser also has a JavaScript interpreter, which runs the JavaScript code on a web page." **Citation 1b(6):** Deploying with the Applet Tag, http://java.sun.com/docs/books/tutorial/deployment/applet/html.html. "If you are not sure whether

Claim	Claim Language	Evidence
		your end users' browsers will have the JavaScript interpreter enabled, you can deploy your applet by manually coding the <applet> HTML tag, instead of using the Deployment Toolkit functions. Depending on the browsers you need to support, you may need to deploy your applet using the <object> or <embed> HTML tag." **Citation 1b(7):** Deploying with the Applet Tag, http://java.sun.com/docs/books/tutorial/deployment/applet/html.html. "If your applet does not need special permissions to perform certain sensitive operations, you can also deploy your applet without a JNLP file. The AppletPage_WithAppletTagNoJNLP.html deploys the Dynamic Tree Demo applet as shown in the following code snippet. <applet code = 'appletComponentArch.DynamicTreeApplet' archive = 'DynamicTreeDemo.jar', width = 300, height = 300 /> where * code is the name of the applet class * archive is the name of jar file containing the applet and its resources * width is the width of the applet * height is the height of the applet" **Citation 1b(8):** Using Applet, Object, and Embed Tags,

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		http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html. "You use the applet tag to deploy applets to a multi-browser environment. . . . The HTML specification states that the applet tag is deprecated, and that you should use the object tag instead. However, the specification is vague about how browsers should implement the object tag to support Java applets, and browser support is currently inconsistent. Sun therefore recommends that you continue to use the applet tag as a consistent way to deploy Java applets across browsers on all platforms. Following is an example of the applet tag: <applet code=Applet1.class width="200" height="200"> <Your browser does not support the <code>applet</code> tag. </applet> " **Citation 1b(9):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html. "You use the embed tag to deploy applets that are to be used only with the Mozilla family of browsers. Following is an example of the embed tag: <embed code="Applet1.class" width="200" height="200" type="application/x-java-applet;version=1.5.0" pluginspage="http://java.sun.com/j2se/1.5.0/download.html"/> The type attribute can have one of two forms:

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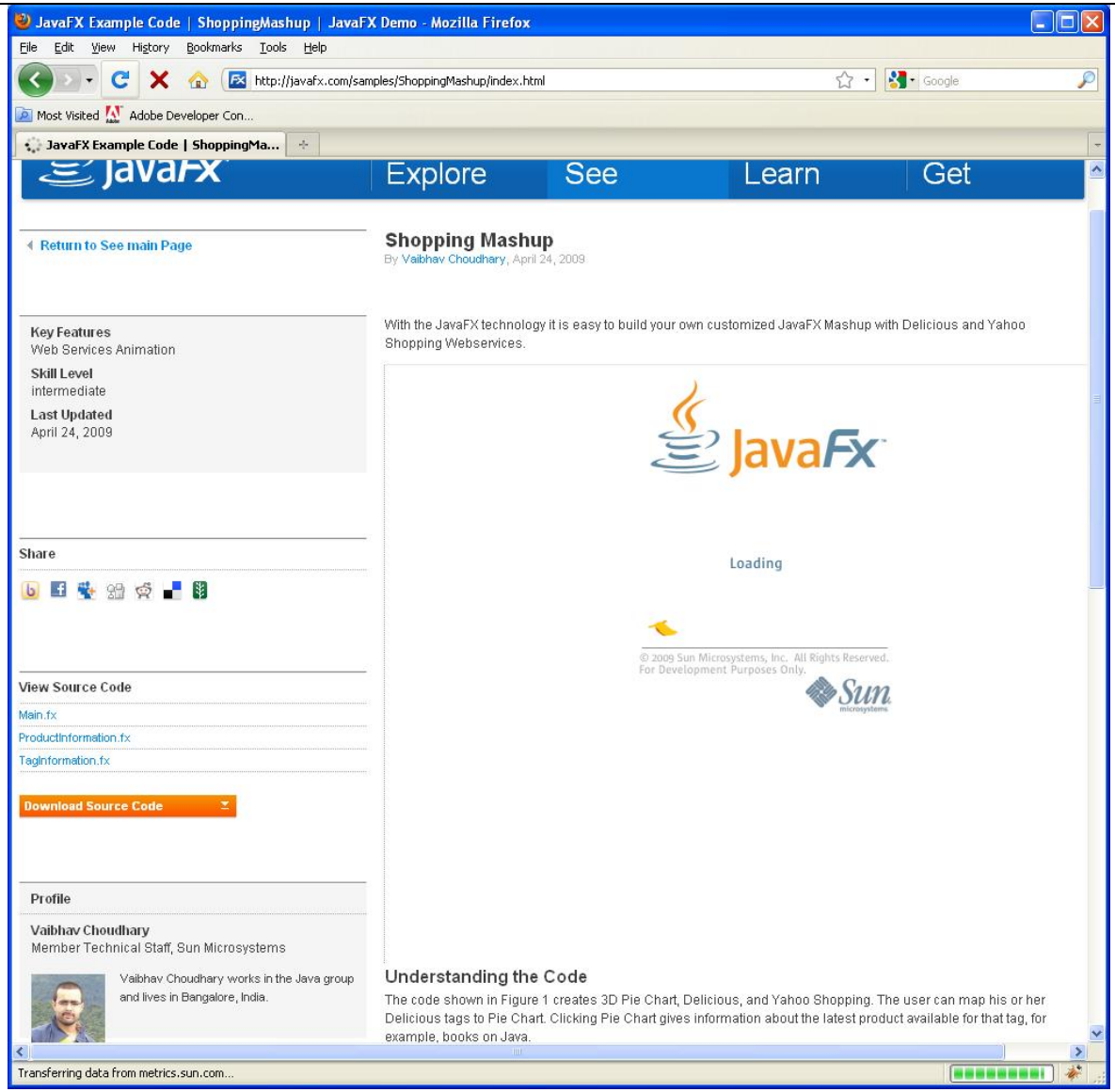
		type="application/x-java-applet;version=1.5.0" With this form, the highest installed JRE that supports the MIME type application/x-java-applet;version=1.5.0 is invoked to run the applet. If a JRE with a version number equal to or greater than the version number specified is installed locally, then that JRE is invoked. Otherwise the user is directed to the URL specified as the value of the pluginspage attribute. type="application/x-java-applet;jpi-version=1.5.0_01 With this form, a JRE with the exact version given by the the value of jpi-version (in this example, 1.5.0_01) is invoked to run the applet. Otherwise the user is directed to the URL specified as the value of the pluginspage attribute." **Citation 1b(10):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html (explaining how to deploy applets in a mixed browser environment using HTML). "Consider the following example code from an HTML page: <object classid="clsid:CAFEEFAC-0015-0000-0000-ABCDEFFEDCBA" <param name="code" value="Applet1.class"> <comment> <embed code="Applet1.class"

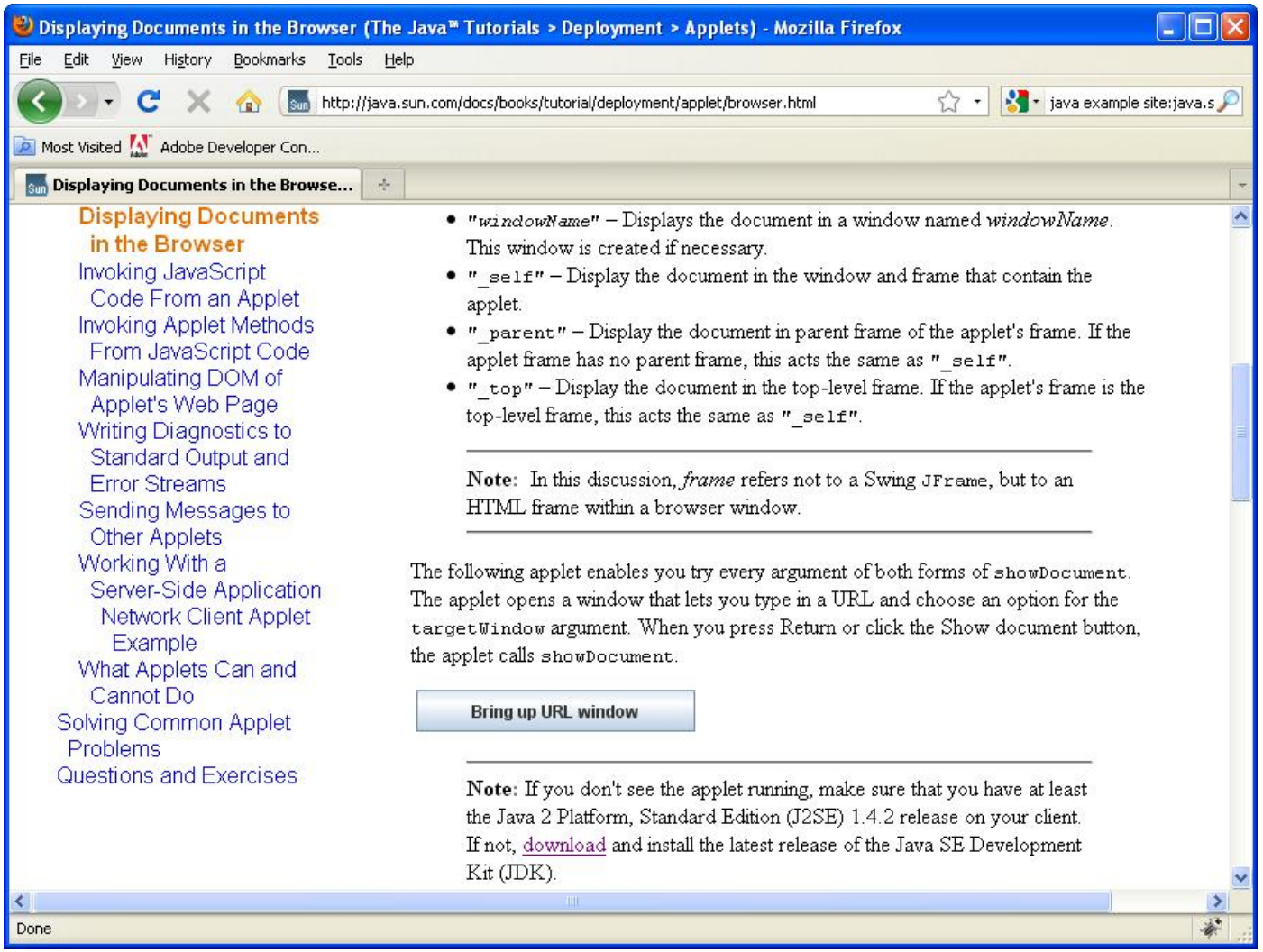
Claim	Claim Language	Evidence
		type="application/x-java-applet;jpi-version=1.5.0"> <noembed> No Java Support. </noembed> </embed> </comment> </object> " **Citation 1b(11):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html (explaining how to deploy applets in a mixed browser environment using JavaScript). "Through JavaScript, you: 1. Detect the user's browser through the appName variable. 2. Use the document.write() method to write a tag based on the value of the appName variable: a. If the browser name equals "Netscape", write the embed tag. b. If the browser name equals "Microsoft Internet Explorer", write the object tag. In the following example, the document.write() method outputs either an embed or object tag for each user "on the fly". [Example code given]" **Citation 1b(12):** Development with JSP and XML-- Part II: JSP with XML in mind, http://java.sun.com/developer/technicalArticles/xml/WebAppDev2/. "XML documents contain portable data. This means that the example in Sample 1 can be processed for output to different browsers (desktop browser for the PC, microbrowser for the handheld device). . . . Basically, the browser has parsed the document and displayed it in a structured manner."

Claim	Claim Language	Evidence
		Citation 1b(13): Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "An applet runs in the context of a browser. The Java Plug-in software in the browser controls the launch and execution of applets. The browser also has a JavaScript interpreter, which runs the JavaScript code on a web page." In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
1c	utilizing said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

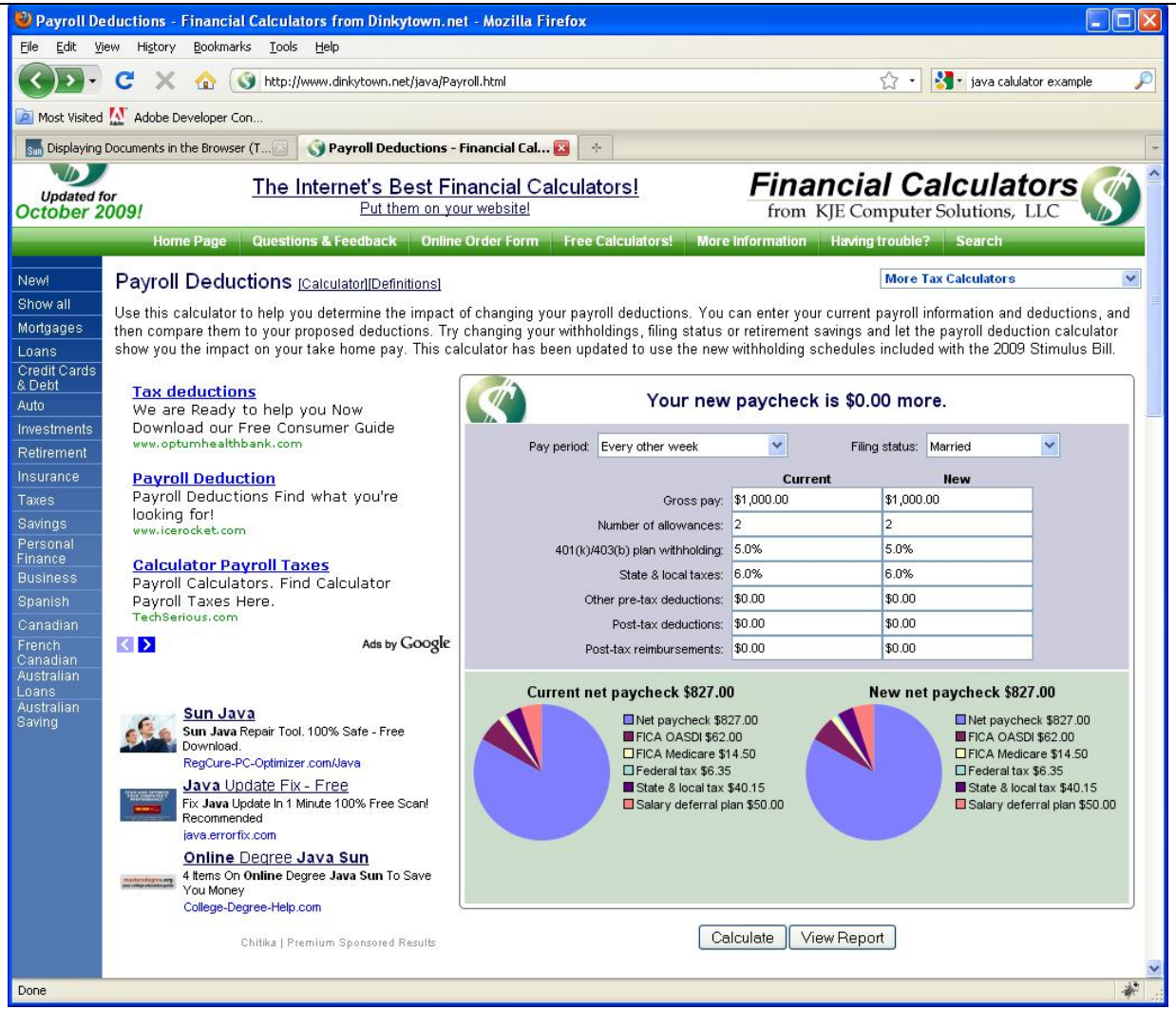
Claim	Claim Language	Evidence
	first browser-controlled window on said client workstation,	

Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence
		

Claim	Claim Language	Evidence
		Source: Shopping Mashup, http://javafx.com/samples/ShoppingMashup/index.html. 

Claim	Claim Language	Evidence
		Source: Displaying Documents in a Browser, http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html.

Claim	Claim Language	Evidence
		

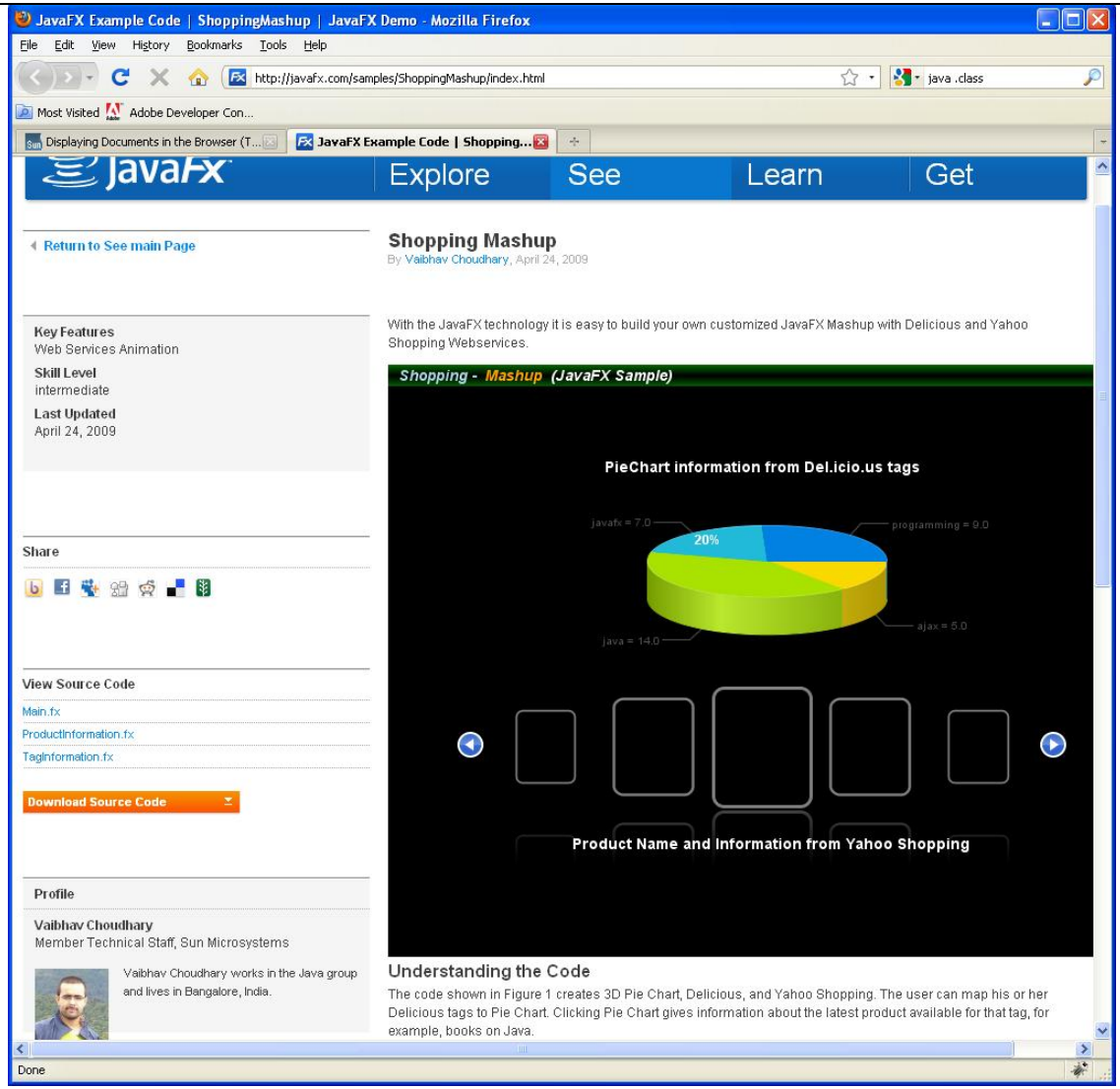
Source: Payroll Deductions - Financial Calculators from Dinkytown.net, http://www.dinkytown.net/java/Payroll.html.

Claim	Claim Language	Evidence
		Citation 1c(5): Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "An applet runs in the context of a browser. The Java Plug-in software in the browser controls the launch and execution of applets. The browser also has a JavaScript interpreter, which runs the JavaScript code on a web page." **Citation 1c(6):** Lesson: Applets, http://java.sun.com/docs/books/tutorial/deployment/applet/index.html. "An applet is a special kind of Java program that a browser enabled with Java technology can download from the internet and run. An applet is typically embedded inside a web page and runs in the context of a browser." **Citation 1c(7):** Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "An applet runs in the context of a browser. The Java Plug-in software in the browser controls the launch and execution of applets. The browser also has a JavaScript interpreter, which runs the JavaScript code on a web page." **Citation 1c(8):** Displaying Documents in the Browser, http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html. "An applet can load a web page in a browser window using the showDocument methods in the java.applet.AppletContext class." **Citation 1c(9):** Development with JSP and XML-- Part II: JSP with XML in mind, http://java.sun.com/developer/technicalArticles/xml/WebAppDev2/. "XML documents contain portable

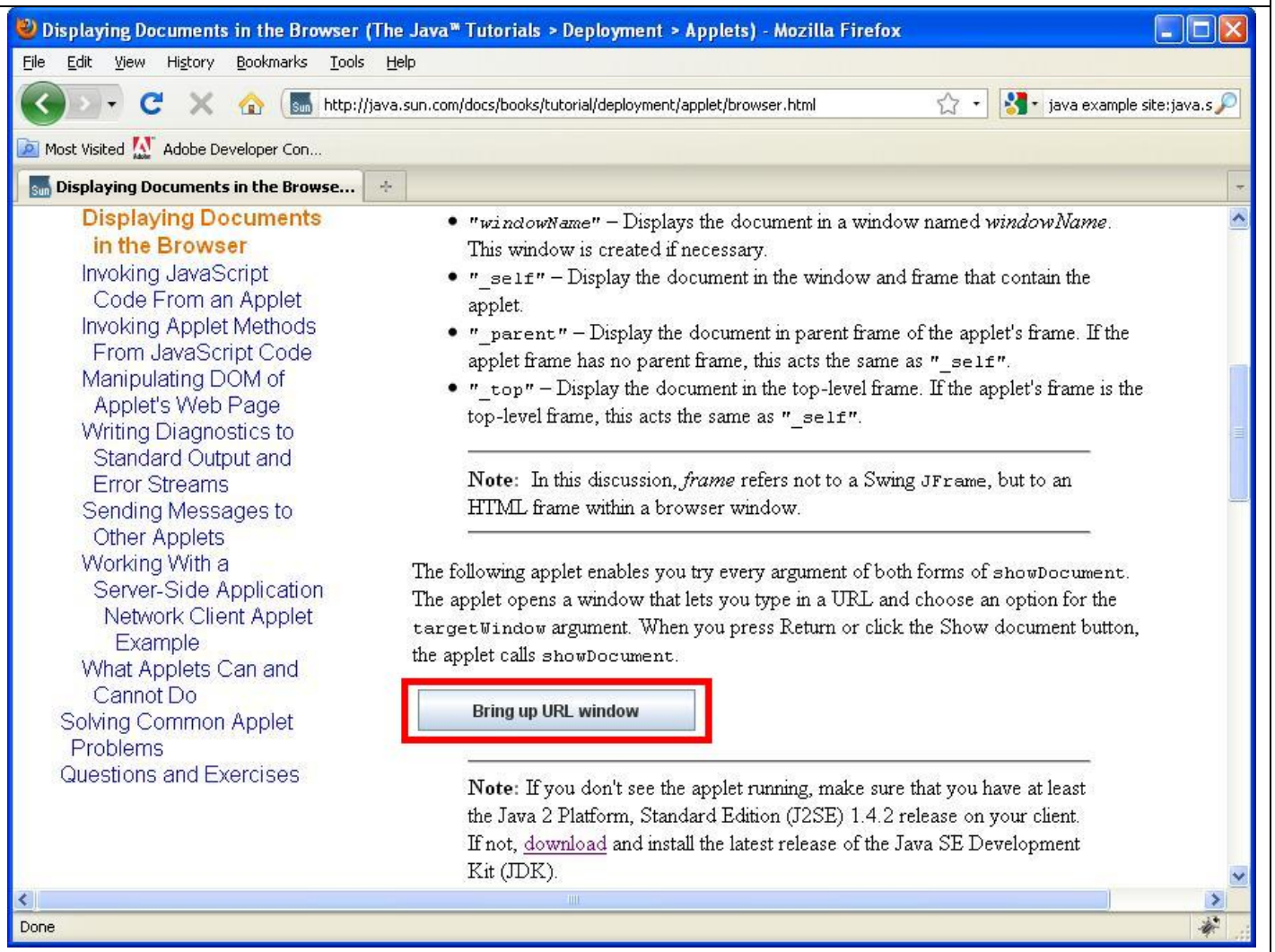
Claim	Claim Language	Evidence
		data. This means that the example in Sample 1 can be processed for output to different browsers (desktop browser for the PC, microbrowser for the handheld device). . . . Basically, the browser has parsed the document and displayed it in a structured manner." In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
1d	wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document,	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) utilize said browser to identify an embed text format, located at a first location in said distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source:

Claim	Claim Language	Evidence
		 <applet mayscript="" code="org.jdesktop.applet.util.JNLPAppletLauncher" archive="webstart/MediaBox.jar,,http://dl.javafx.com/applet-launcher__V1.2.2_b5.jar,http://dl.javafx.com/javafx-rt-windows-i586__V1.2.2_b5.jar,http://dl.javafx.com/emptyJarFile-1261527425946__V1.2.2_b5.jar" width="640" height="360"> <param name="codebase_lookup" value="false"> <param name="subapplet.classname" value="com.sun.javafx.runtime.adapter.Applet"> <param name="progressbar" value="false"> <param name="classloader_cache" value="false"> <param name="MainJavaFXScript" value="com.sun.javafx.mediabox.Main"> <param name="subapplet.displayname" value="appl"> <param name="jnlpNumExtensions" value="1"> <param name="jnlpExtension1" value="http://dl.javafx.com/javafx-rt__V1.2.2_b5.jnlp"> <param name="jnlp_href" value="webstart/MediaBox_browser.jnlp"> <param name="deployJavaAppletID" value="deployJavaApplet1"> <param name="kisawesome" value="true"> </applet>

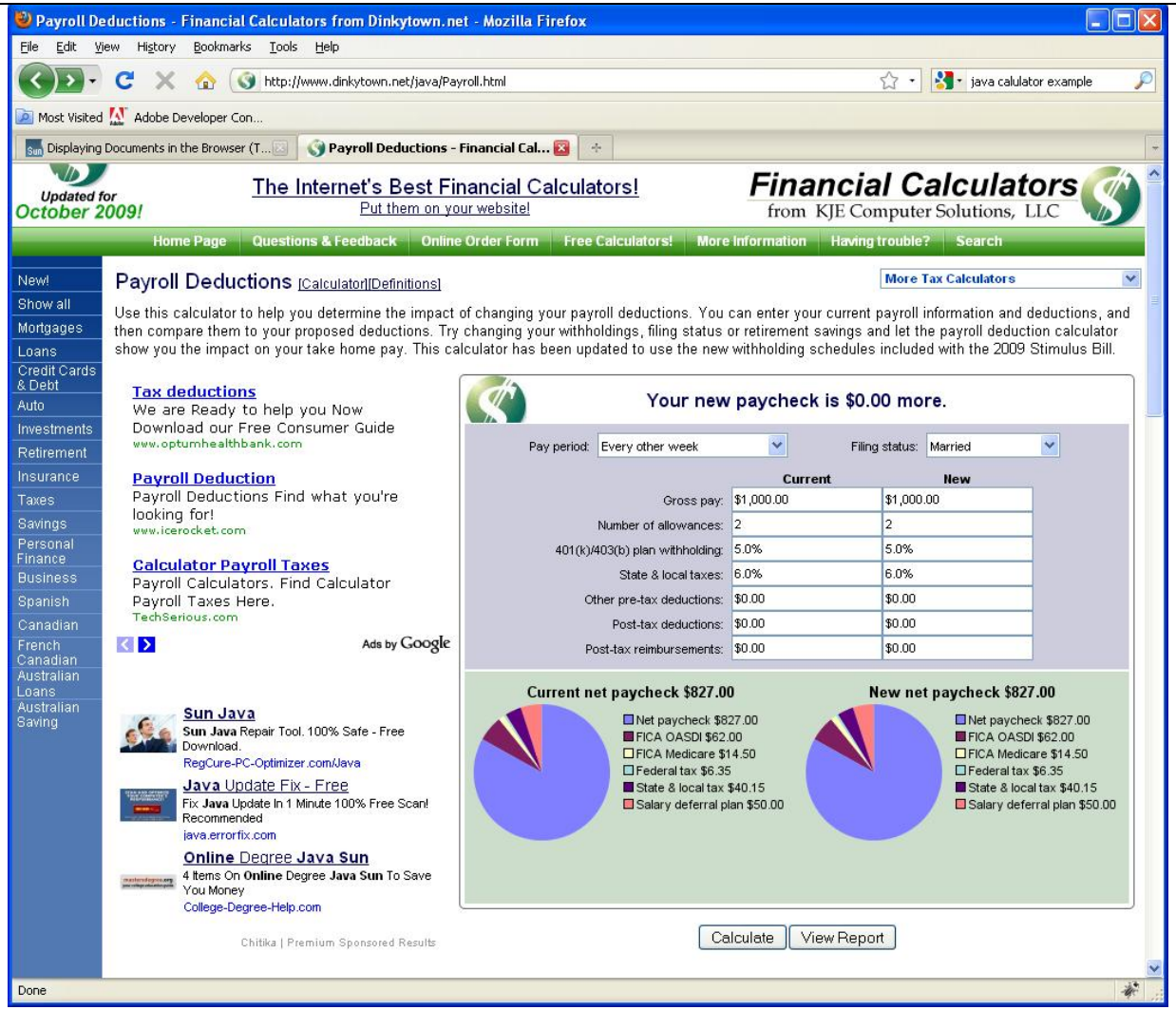
Claim	Claim Language	Evidence
		 Source: Shopping Mashup, http://javafx.com/samples/ShoppingMashup/index.html. *See also* the

Claim	Claim Language	Evidence
		source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <applet mayscript="" code="org.jdesktop.applet.util.JNLPAppletLauncher" archive="webstart/ShoppingMashup.jar,,http://dl.javafx.com/applet-launcher__V1.2.2_b5.jar,http://dl.javafx.com/javafx-rt-windows-i586__V1.2.2_b5.jar,http://dl.javafx.com/emptyJarFile-1261528127235__V1.2.2_b5.jar" width="700" height="550"> <param name="codebase_lookup" value="false"> <param name="subapplet.classname" value="com.sun.javafx.runtime.adapter.Applet"> <param name="progressbar" value="false"> <param name="classloader_cache" value="false"> <param name="MainJavaFXScript" value="shoppingmashup.Main"> <param name="draggable" value="true"> <param name="subapplet.displayname" value="appl"> <param name="jnlpNumExtensions" value="1"> <param name="jnlpExtension1" value="http://dl.javafx.com/javafx-rt__V1.2.2_b5.jnlp"> <param name="jnlp_href" value="webstart/ShoppingMashup_browser.jnlp"> <param name="deployJavaAppletID" value="deployJavaApplet1"> <param name="kisawesome" value="true"> </applet>

Claim	Claim Language	Evidence
		

Source: Displaying Documents in a Browser,

Claim	Claim Language	Evidence
		http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <script src="http://www.java.com/js/deployJava.js"></script> <script> var attributes = { code:'ShowDocument.class', archive:'examples/dist/applet_ShowDocument/applet_ShowDocument.jar', width:200, height:30} ; var parameters = {} ; deployJava.runApplet(attributes, parameters, '1.4'); </script>

Claim	Claim Language	Evidence
		

Source: Payroll Deductions - Financial Calculators from Dinkytown.net,

Claim	Claim Language	Evidence
		http://www.dinkytown.net/java/Payroll.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <applet name="calculator" code="Payroll.class" archive="dinkytown.jar" align="baseline" width="600" height="475"> **Citation 1d(5):** "If you are not sure whether your end users' browsers will have the JavaScript interpreter enabled, you can deploy your applet by manually coding the <applet> HTML tag, instead of using the Deployment Toolkit functions. Depending on the browsers you need to support, you may need to deploy your applet using the <object> or <embed> HTML tag." **Citation 1d(6):** Embed in HTML, http://www.echoecho.com/applets01.htm. **"**Two HTML tags are relevant according to applets: <Applet> and <Param>. The <Applet> tag embeds the applet in your HTML page. The <Param> tag is used to enter parameters for the applet." **Citation 1d(7):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html. "You use the embed tag to deploy applets that are to be used only with the Mozilla family of browsers. Following is an example of the embed tag: <embed code="Applet1.class" width="200" height="200" type="application/x-java-applet;version=1.5.0" pluginspage="http://java.sun.com/j2se/1.5.0/download.html"/>

Claim	Claim Language	Evidence
		The type attribute can have one of two forms: type="application/x-java-applet;version=1.5.0" With this form, the highest installed JRE that supports the MIME type application/x-java-applet;version=1.5.0 is invoked to run the applet. If a JRE with a version number equal to or greater than the version number specified is installed locally, then that JRE is invoked. Otherwise the user is directed to the URL specified as the value of the pluginspage attribute. type="application/x-java-applet;jpi-version=1.5.0_01 With this form, a JRE with the exact version given by the the value of jpi-version (in this example, 1.5.0_01) is invoked to run the applet. Otherwise the user is directed to the URL specified as the value of the pluginspage attribute." **Citation 1d(8):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html (explaining how to deploy applets in a mixed browser environment using HTML). "Consider the following example code from an HTML page: <object classid="clsid:CAFEEFAC-0015-0000-0000-ABCDEFFEDCBA" <param name="code" value="Applet1.class">

Claim	Claim Language	Evidence
		<comment> <embed code="Applet1.class" type="application/x-java-applet;jpi-version=1.5.0"> <noembed> No Java Support. </noembed> </embed> </comment> </object> **Citation 1d(9):** Next Generation in Applet Java Plug-in Technology, http://java.sun.com/developer/technicalArticles/javase/newapplets/. "The web page contains information about the Cascade mountain range (thanks to Wikipedia) and embeds World Wind Java as an applet to illustrate the locations of the mountains in the range. Incorporating World Wind in a web page is remarkably easy. Here is the <applet> tag embedding it on the page: <applet id="wwjApplet" width=600 height=380 code="gov.nasa.worldwind.examples.applet.WWJApplet" archive="BackwardCompatibility.jar"> <param name="jnlp_href" value="WWJApplet.jnlp"> </applet> "

Claim	Claim Language	Evidence
		Citation 1d(10): Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html (explaining how to deploy applets in a mixed browser environment using JavaScript). "Through JavaScript, you: 1. Detect the user's browser through the appName variable. 2. Use the document.write() method to write a tag based on the value of the appName variable: a. If the browser name equals "Netscape", write the embed tag. b. If the browser name equals "Microsoft Internet Explorer", write the object tag." **Citation 1d(11):** J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "Web clients usually run inside a browser and use the services of the browser to render content provided by the Web tier. In these clients, the user interface is generated on the server side by the Web tier and communicated via HTML." **Citation 1d(12):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html. "You use the applet tag to deploy applets to a multi-browser environment. . . . The HTML specification states that the applet tag is deprecated, and that you should use the object tag instead. However, the specification is vague about how browsers should implement the object tag to support Java applets, and browser support is currently inconsistent. Sun therefore recommends that you continue to use the applet tag as a consistent way to deploy Java applets across browsers on all platforms." In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

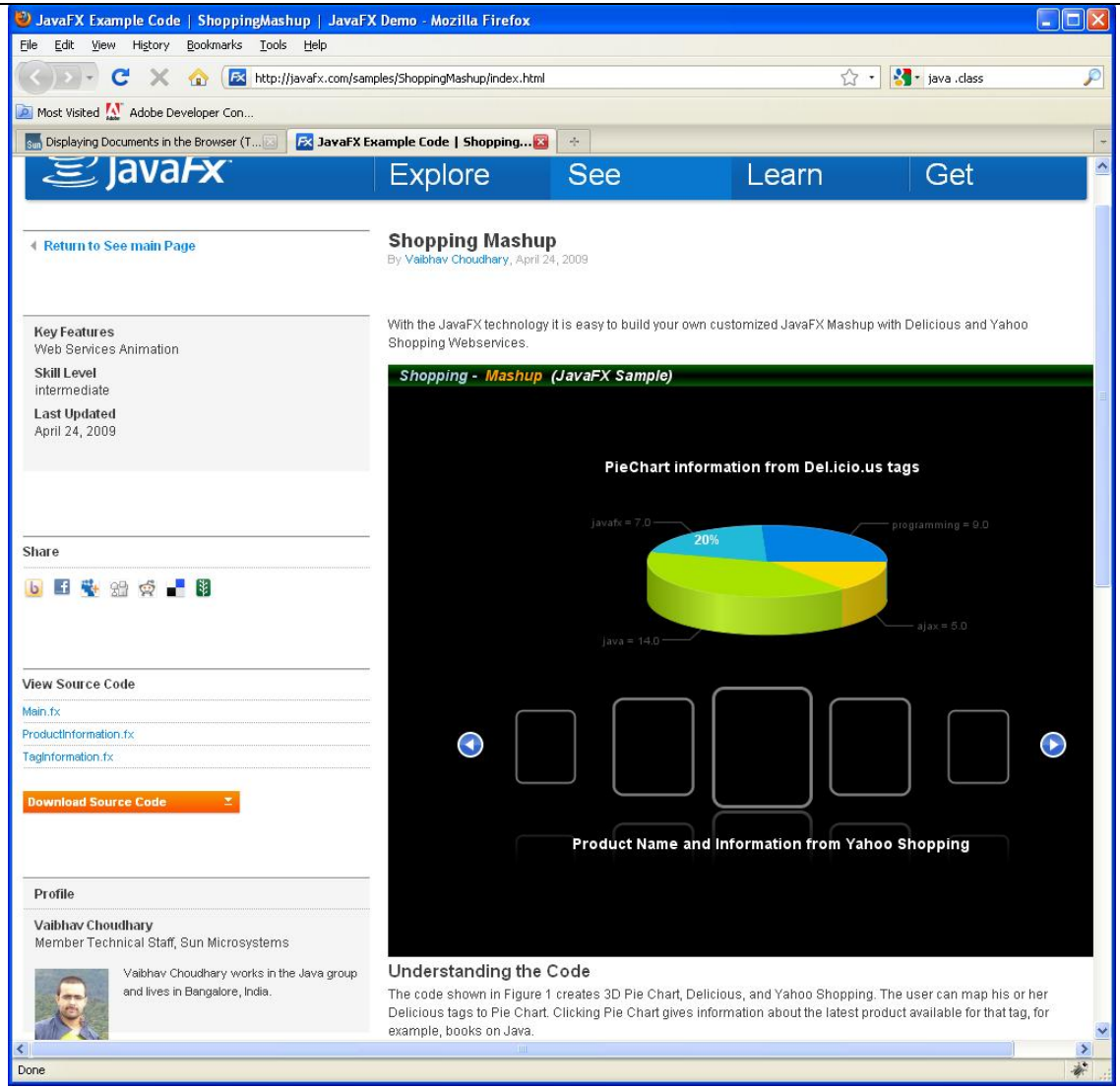
Claim	Claim Language	Evidence
1e	wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document,	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. **Citation 1e(1):** Distributed Multitiered Applications, http://java.sun.com/javaee/6/docs/tutorial/doc/bnaay.html. "A web page received from the web tier can include an embedded applet. An applet is a small client application written in the Java programming language that executes in the Java virtual machine installed in the web browser. However, client systems will likely need the Java Plug-in and possibly a security policy file for the applet to successfully execute in the web browser."

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source:

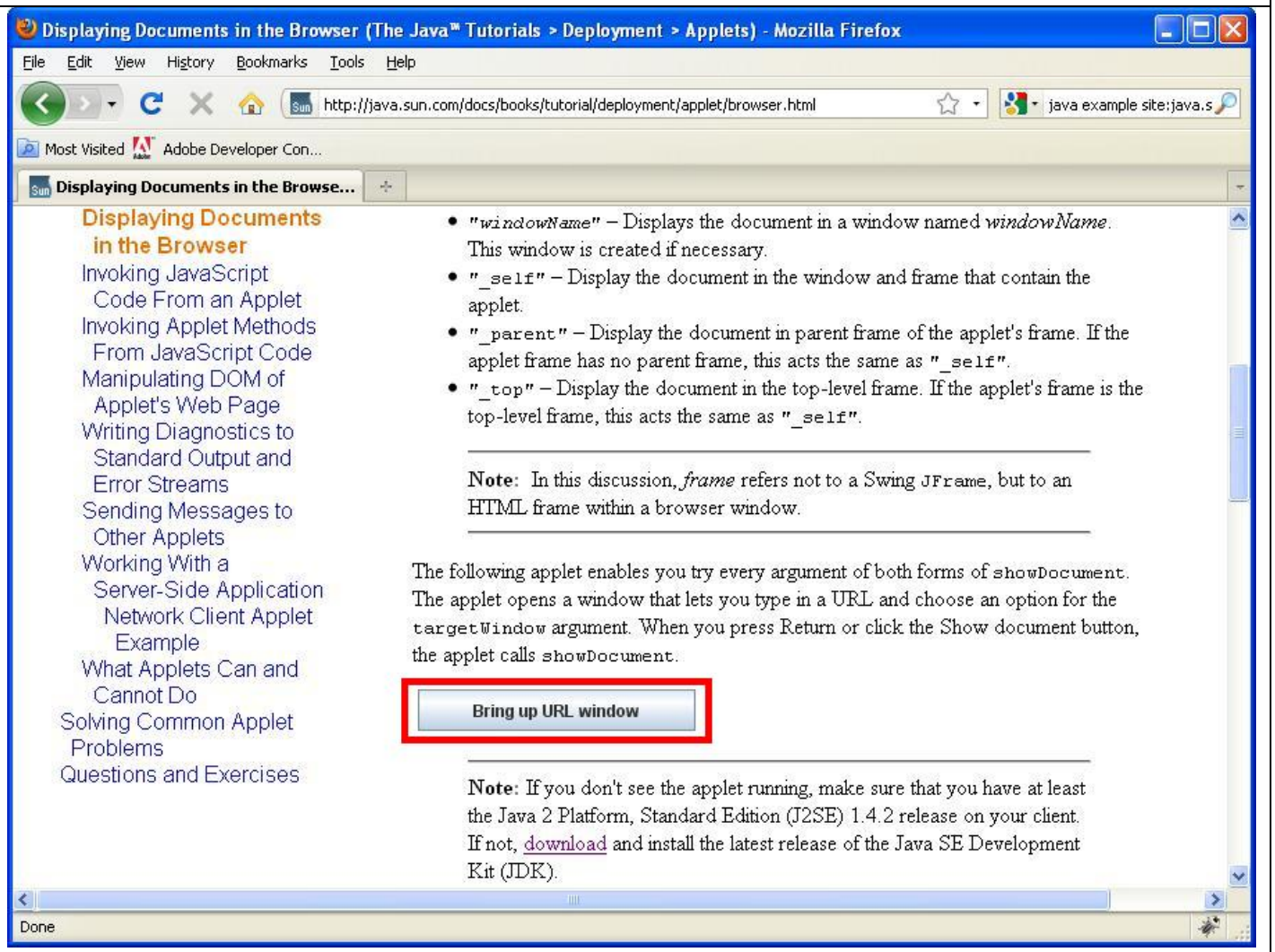
Claim	Claim Language	Evidence

		<script>
		var u10only = '';
		var webstartAllowed = '';
		if (u10only == 'true' && !deployJava.isPlugin2()) {
		document.write(" ");
		document.write("This sample needs Java SE 6 Update 10 or higher with Internet Explorer 7+ or FireFox 3+");
		document.write("");
		if (webstartAllowed == 'true') {
		document.write(" Please <a href='webstart/MediaBox.jnlp'>run this example with Java Webstart<a> instead");
		}
		document.write(" ");
		} else {
		javafx({
		archive: "webstart/MediaBox.jar,",
		width: 640,
		height: 360,
		code: "com.sun.javafx.mediabox.Main",
		loading_image_url: "desc-resources/splash.gif",
		loading_image_width: 240,
		loading_image_height: 320,
		name: "appl"

Claim	Claim Language	Evidence
		}); } </script>

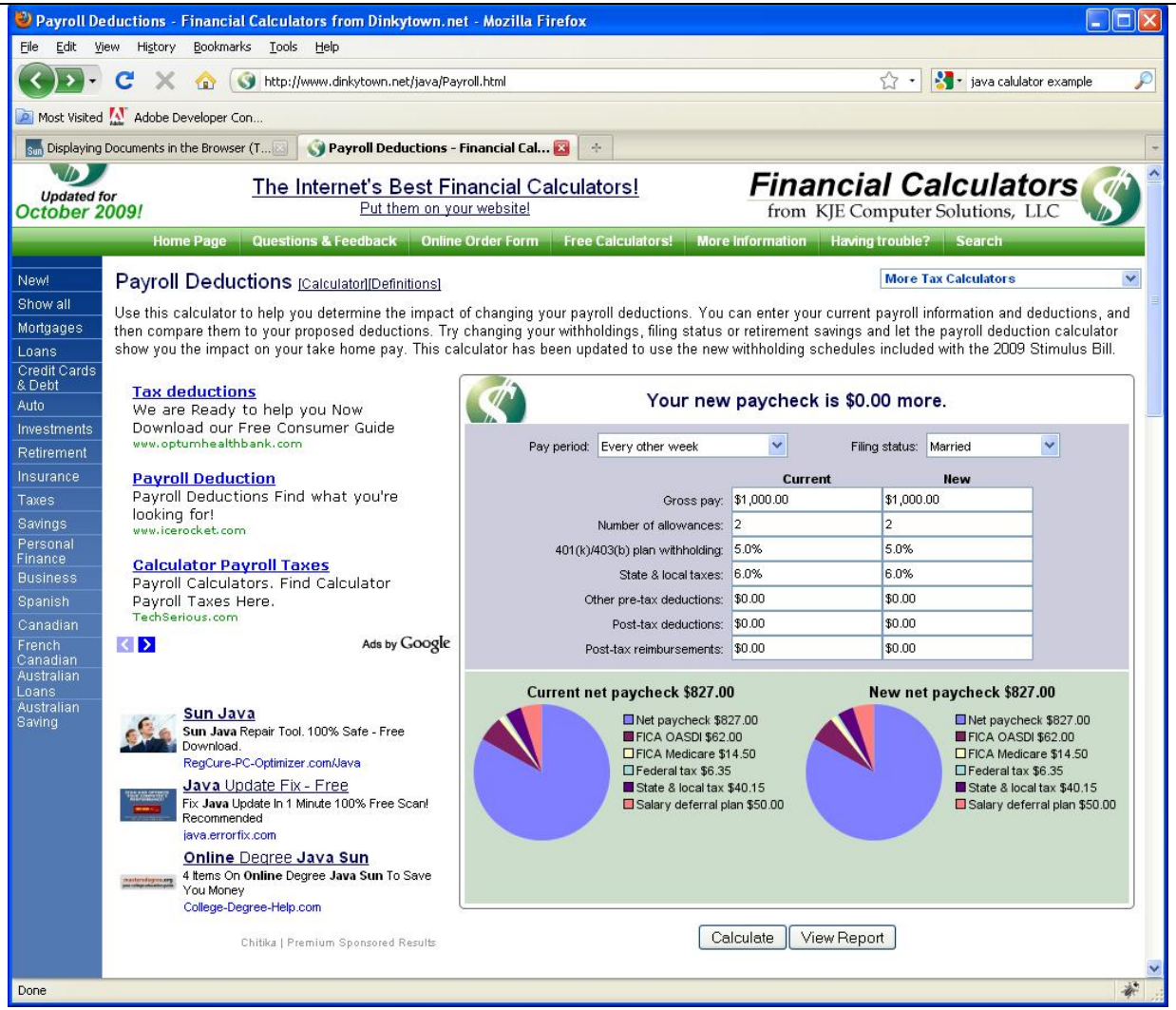
Claim	Claim Language	Evidence
		 Source: Shopping Mashup, http://javafx.com/samples/ShoppingMashup/index.html. *See also* the

Claim	Claim Language	Evidence
		source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <applet mayscript="" code="org.jdesktop.applet.util.JNLPAppletLauncher" archive="webstart/ShoppingMashup.jar,,http://dl.javafx.com/applet-launcher__V1.2.2_b5.jar,http://dl.javafx.com/javafx-rt-windows-i586__V1.2.2_b5.jar,http://dl.javafx.com/emptyJarFile-1261528127235__V1.2.2_b5.jar" width="700" height="550"> <param name="codebase_lookup" value="false"> <param name="subapplet.classname" value="com.sun.javafx.runtime.adapter.Applet"> <param name="progressbar" value="false"> <param name="classloader_cache" value="false"> <param name="MainJavaFXScript" value="shoppingmashup.Main"> <param name="draggable" value="true"> <param name="subapplet.displayname" value="appl"> <param name="jnlpNumExtensions" value="1"> <param name="jnlpExtension1" value="http://dl.javafx.com/javafx-rt__V1.2.2_b5.jnlp"> <param name="jnlp_href" value="webstart/ShoppingMashup_browser.jnlp"> <param name="deployJavaAppletID" value="deployJavaApplet1"> <param name="kisawesome" value="true"> </applet>

Claim	Claim Language	Evidence
		

Source: Displaying Documents in a Browser,

Claim	Claim Language	Evidence
		http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <script src="http://www.java.com/js/deployJava.js"></script> <script> var attributes = { code:'ShowDocument.class', archive:'examples/dist/applet_ShowDocument/applet_ShowDocument.jar', width:200, height:30} ; var parameters = {} ; deployJava.runApplet(attributes, parameters, '1.4'); </script>

Claim	Claim Language	Evidence
		 Source: Payroll Deductions - Financial Calculators from Dinkytown.net,

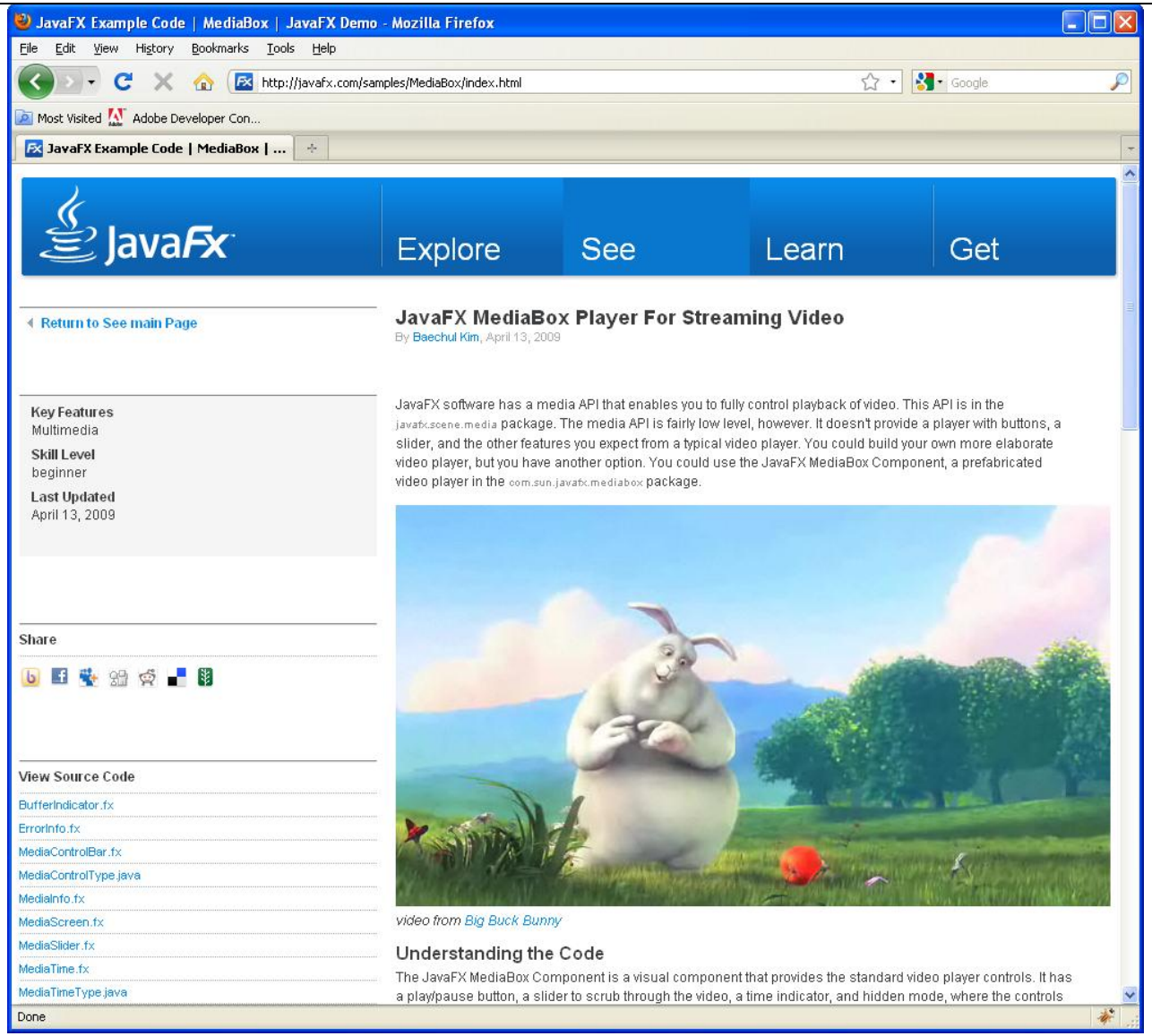
Claim	Claim Language	Evidence
		http://www.dinkytown.net/java/Payroll.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <applet name="calculator" code="Payroll.class" archive="dinkytown.jar" align="baseline" width="600" height="475"> **Citation 1e(6):** MIME Types, http://docs.sun.com/app/docs/doc/819-2630/abumi?a=view. "The MIME types file in the config directory contains mappings between the Multipurpose Internet Mail Extensions (MIME) types and file extensions. For example, the MIME types file maps the extensions .html and .htm to the type text/html: type=text/html exts=htm,html When the Web Server receives a request from a client, it uses the MIME type mappings to determine the kind of resource that is requested." **Citation 1e(7):** MIME Types Syntax, http://docs.sun.com/app/docs/doc/819-2630/abumn?a=view. "The first line in the MIME types file identifies the file format: #--Sun Microsystems MIME Information[.] Other uncommented lines have the following format: type=type/subtype exts=[file extensions] type/subtype is the type and subtype [and] exts are the file extensions associated with this type." **Citation 1e(8):** Processig the Response in the Client Using the MIME Type, http://docs.sun.com/app/docs/doc/819-2630/abumm?a=view. "The Service function generates the

Claim	Claim Language	Evidence
		data and sends it to the client that made the request. When the server sends the data to the client, it also sends headers. These headers include whichever MIME type attributes are known (which is usually type). When the client receives the data, it uses the MIME type to decide what to do with the data. For browser clients, the browser usually displays the data in the browser window. If the requested resource cannot be displayed in a browser but needs to be handled by another application, its type starts with application/, for example application/octet-stream (for .bin file extensions) or application/x-maker (for .fm file extensions). The client has its own set of user-editable mappings that tells it which application to use to handle which types of data." **Citation 1e(9):** Mime Types Database, http://mimeapplication.net/java. "The MIME type application/java is used to denote the presence of Java bytecode instruction format files. The category of this MIME type is "application". The Java bytecode files use the extension CLASS. These are generated by the Java compiler while handling a Java application and are executed by the Java virtual machine." **Citation 1e(10):** Auto-Install: Easier Launching of Java Web Start Applications, http://java.sun.com/developer/technicalArticles/JavaLP/javawebstart/AutoInstall.html. "In particular, there is one overriding problem that they are trying to solve: Launch a Java application from the browser under a specified version of the JRE. This goal has several implicit problems that have to be resolved: 1. Detect whether the JRE exists on the system. 2. If it exists, determine its version. 3. If it does not exist on the system, or if the version differs from that required by the application,

Claim	Claim Language	Evidence
		install the proper version. 4. After it is installed, launch the application. It turns out that many of these problems have already been solved and are available in Tiger (Java SE), at least for specific browser and platform combinations." **Citation 1e(11):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html. "You use the embed tag to deploy applets that are to be used only with the Mozilla family of browsers. Following is an example of the embed tag: <embed code="Applet1.class" width="200" height="200" type="application/x-java-applet;version=1.5.0" pluginspage="http://java.sun.com/j2se/1.5.0/download.html"/> The type attribute can have one of two forms: type="application/x-java-applet;version=1.5.0" With this form, the highest installed JRE that supports the MIME type application/x-java-applet;version=1.5.0 is invoked to run the applet. If a JRE with a version number equal to or greater than the version number specified is installed locally, then that JRE is invoked. Otherwise the user is directed to the URL specified as the value of the pluginspage attribute.

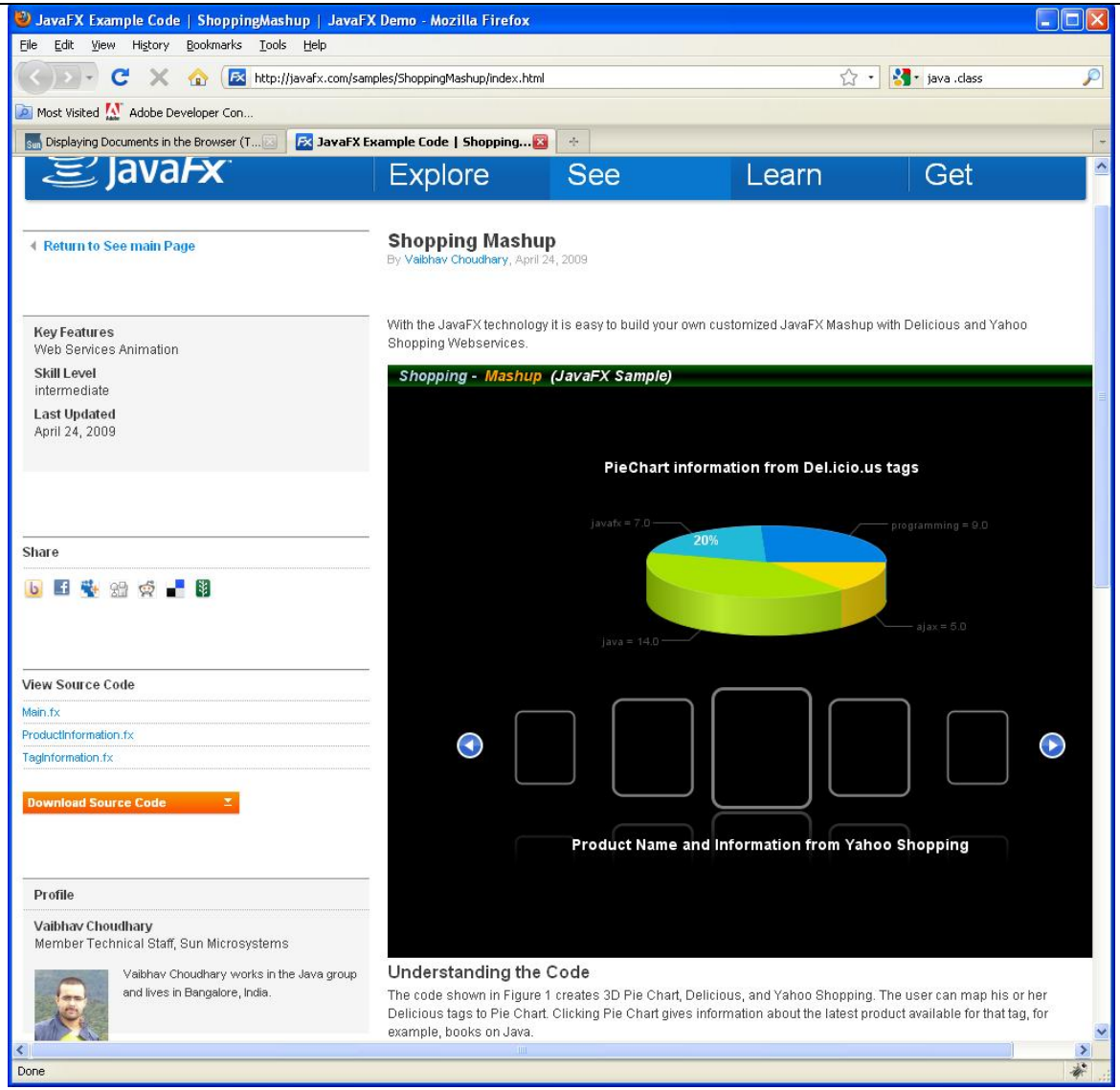
Claim	Claim Language	Evidence
		type="application/x-java-applet;jpi-version=1.5.0_01 With this form, a JRE with the exact version given by the the value of jpi-version (in this example, 1.5.0_01) is invoked to run the applet. Otherwise the user is directed to the URL specified as the value of the pluginspage attribute." **Citation 1e(12):** Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html (explaining how to deploy applets in a mixed browser environment using HTML). "Consider the following example code from an HTML page: <object classid="clsid:CAFEEFAC-0015-0000-0000-ABCDEFFEDCBA" <param name="code" value="Applet1.class"> <comment> <embed code="Applet1.class" type="application/x-java-applet;jpi-version=1.5.0"> <noembed> No Java Support. </noembed> </embed> </comment> </object>

Claim	Claim Language	Evidence
		” In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
1f	and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

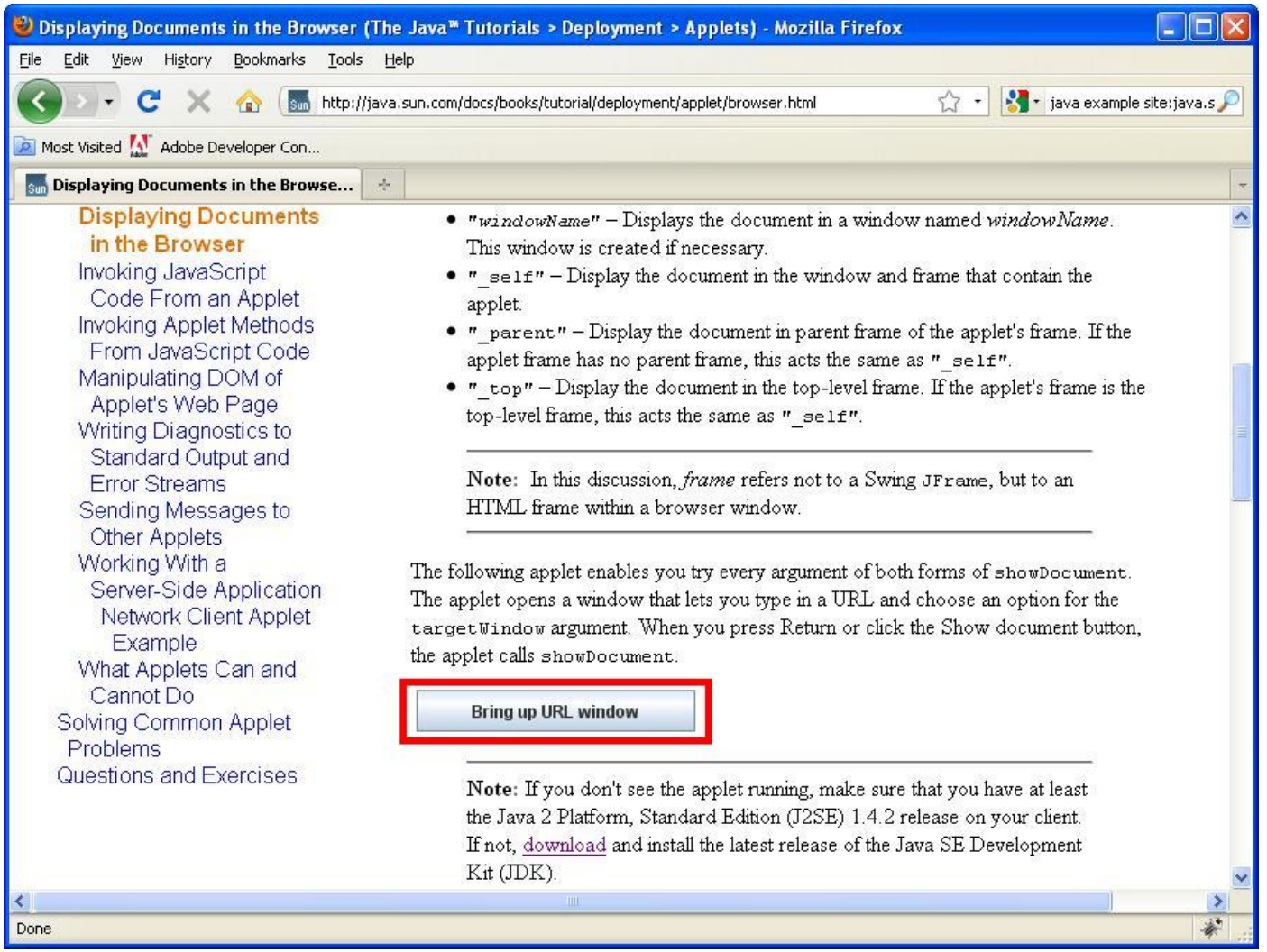
Claim	Claim Language	Evidence
		

Claim	Claim Language	Evidence
		Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <applet mayscript="" code="org.jdesktop.applet.util.JNLPAppletLauncher" archive="webstart/MediaBox.jar,,http://dl.javafx.com/applet-launcher__V1.2.2_b5.jar,http://dl.javafx.com/javafx-rt-windows-i586__V1.2.2_b5.jar,http://dl.javafx.com/emptyJarFile-1261527425946__V1.2.2_b5.jar" width="640" height="360"> <param name="codebase_lookup" value="false"> <param name="subapplet.classname" value="com.sun.javafx.runtime.adapter.Applet"> <param name="progressbar" value="false"> <param name="classloader_cache" value="false"> <param name="MainJavaFXScript" value="com.sun.javafx.mediabox.Main"> <param name="subapplet.displayname" value="appl"> <param name="jnlpNumExtensions" value="1"> <param name="jnlpExtension1" value="http://dl.javafx.com/javafx-rt__V1.2.2_b5.jnlp"> <param name="jnlp_href" value="webstart/MediaBox_browser.jnlp"> <param name="deployJavaAppletID" value="deployJavaApplet1"> <param name="kisawesome" value="true"> </applet>

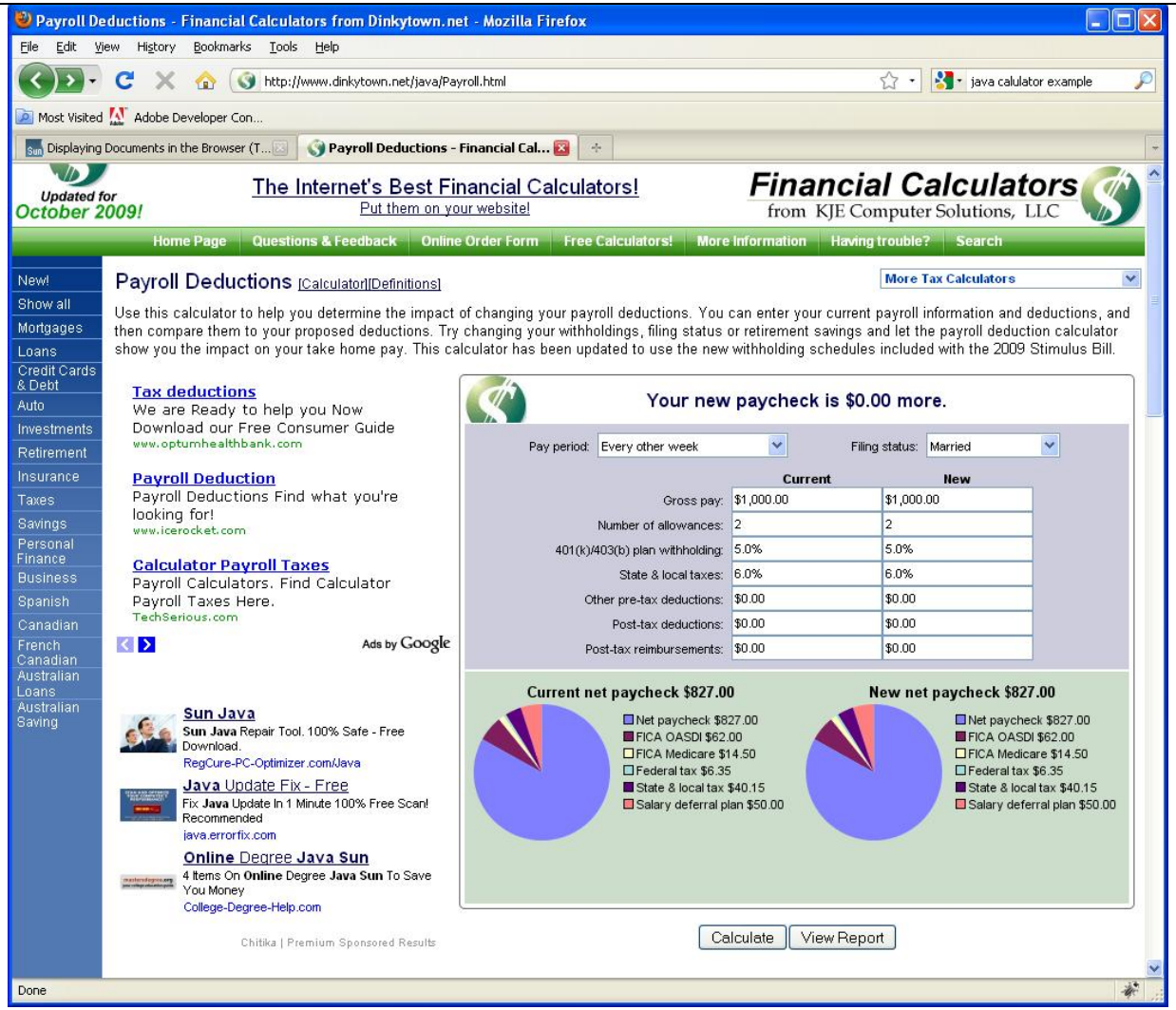
Claim	Claim Language	Evidence
		Citation 1f(2): J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "Applets are delivered through applet tags embedded in HTML. The Web browser downloads the code for the applet at request time and executes it in a Java virtual machine on the client machine."

Claim	Claim Language	Evidence
		

Claim	Claim Language	Evidence
		Source: Shopping Mashup, http://javafx.com/samples/ShoppingMashup/index.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <applet mayscript="" code="org.jdesktop.applet.util.JNLPAppletLauncher" archive="webstart/ShoppingMashup.jar,,http://dl.javafx.com/applet-launcher__V1.2.2_b5.jar,http://dl.javafx.com/javafx-rt-windows-i586__V1.2.2_b5.jar,http://dl.javafx.com/emptyJarFile-1261528127235__V1.2.2_b5.jar" width="700" height="550"> <param name="codebase_lookup" value="false"> <param name="subapplet.classname" value="com.sun.javafx.runtime.adapter.Applet"> <param name="progressbar" value="false"> <param name="classloader_cache" value="false"> <param name="MainJavaFXScript" value="shoppingmashup.Main"> <param name="draggable" value="true"> <param name="subapplet.displayname" value="appl"> <param name="jnlpNumExtensions" value="1"> <param name="jnlpExtension1" value="http://dl.javafx.com/javafx-rt__V1.2.2_b5.jnlp"> <param name="jnlp_href" value="webstart/ShoppingMashup_browser.jnlp"> <param name="deployJavaAppletID" value="deployJavaApplet1"> <param name="kisawesome" value="true"> </applet>

Claim	Claim Language	Evidence
		 Source: Displaying Documents in a Browser,

Claim	Claim Language	Evidence
		http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html. *See also* the source for this page, which includes text formats as shown below, in addition to other text formats which appear in the source: <script src="http://www.java.com/js/deployJava.js"></script> <script> var attributes = { code:'ShowDocument.class', archive:'examples/dist/applet_ShowDocument/applet_ShowDocument.jar', width:200, height:30} ; var parameters = {} ; deployJava.runApplet(attributes, parameters, '1.4'); </script>

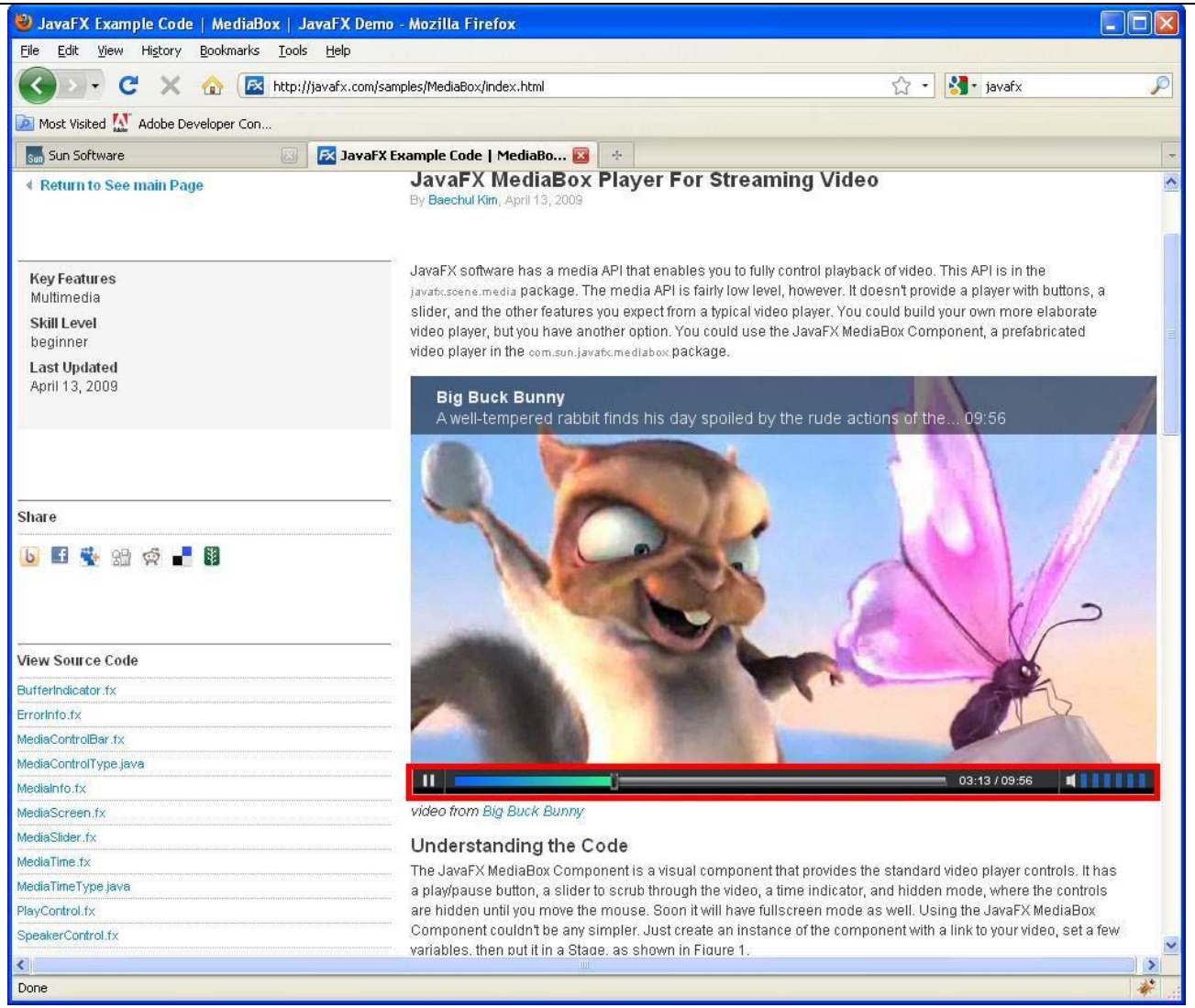
Claim	Claim Language	Evidence
		

Source: Payroll Deductions - Financial Calculators from Dinkytown.net, http://www.dinkytown.net/java/Payroll.html. *See also* the source for this page, which includes text

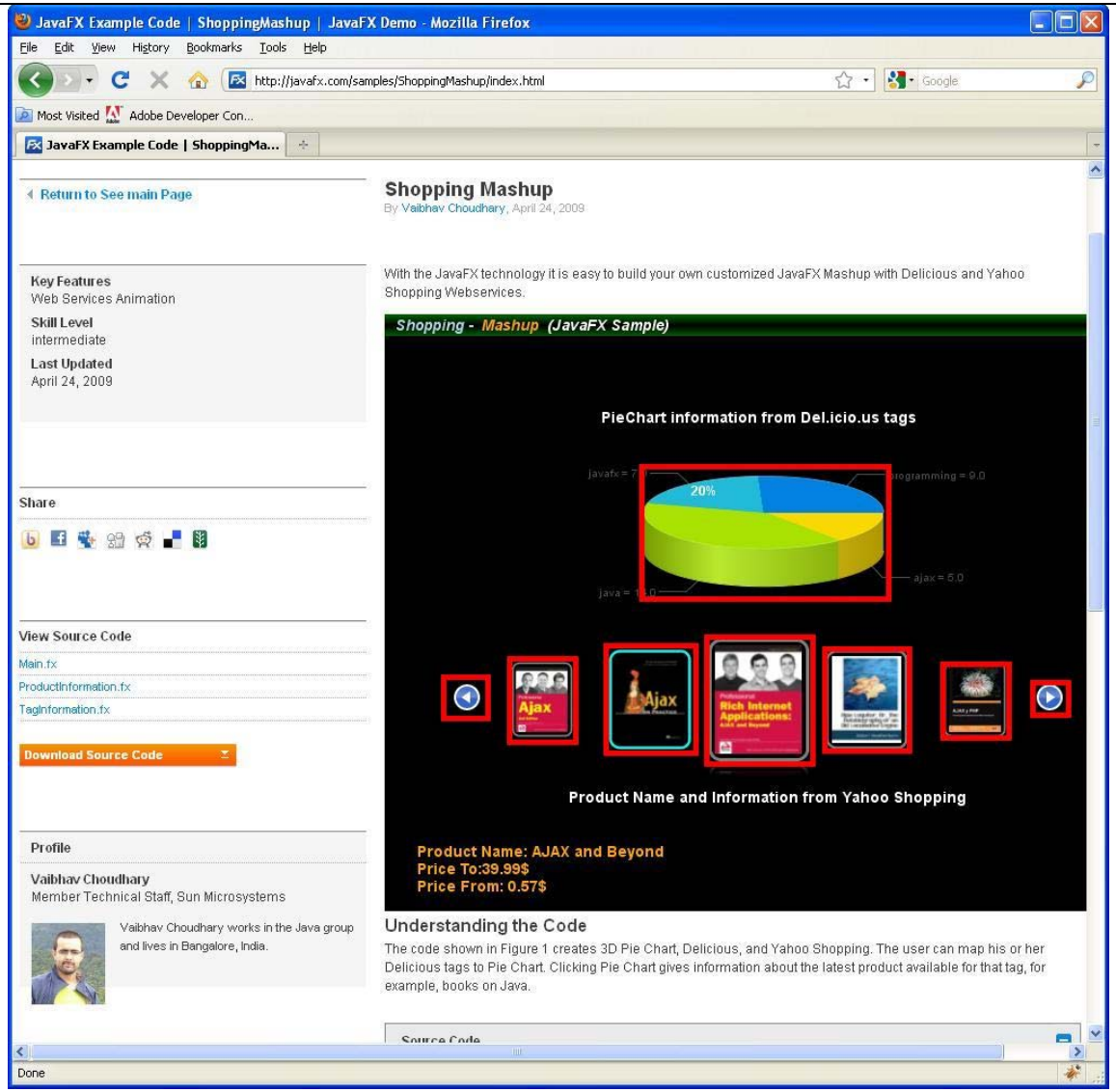
Claim	Claim Language	Evidence
		formats as shown below, in addition to other text formats which appear in the source: <applet name="calculator" code="Payroll.class" archive="dinkytown.jar" align="baseline" width="600" height="475"> **Citation 1f(6)**: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html. "The most important variables in the previous code are the first few. You must set the mediaSource to actually play video. . . . The autoPlay variable do [sic] exactly what you might expect: determine if the media should start playing as soon as it can." **Citation 1f(7):** Development with JSP and XML-- Part II: JSP with XML in mind, http://java.sun.com/developer/technicalArticles/xml/WebAppDev2/. "XML documents contain portable data. This means that the example in Sample 1 can be processed for output to different browsers (desktop browser for the PC, microbrowser for the handheld device). . . . Basically, the browser has parsed the document and displayed it in a structured manner." **Citation 1f(8):** Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "An applet runs in the context of a browser. The Java Plug-in software in the browser controls the launch and execution of applets. The browser also has a JavaScript interpreter, which runs the JavaScript code on a web page." **Citation 1f(9):** Next Generation in Applet Java Plug-in Technology, http://java.sun.com/developer/technicalArticles/javase/newapplets/. "The web page contains

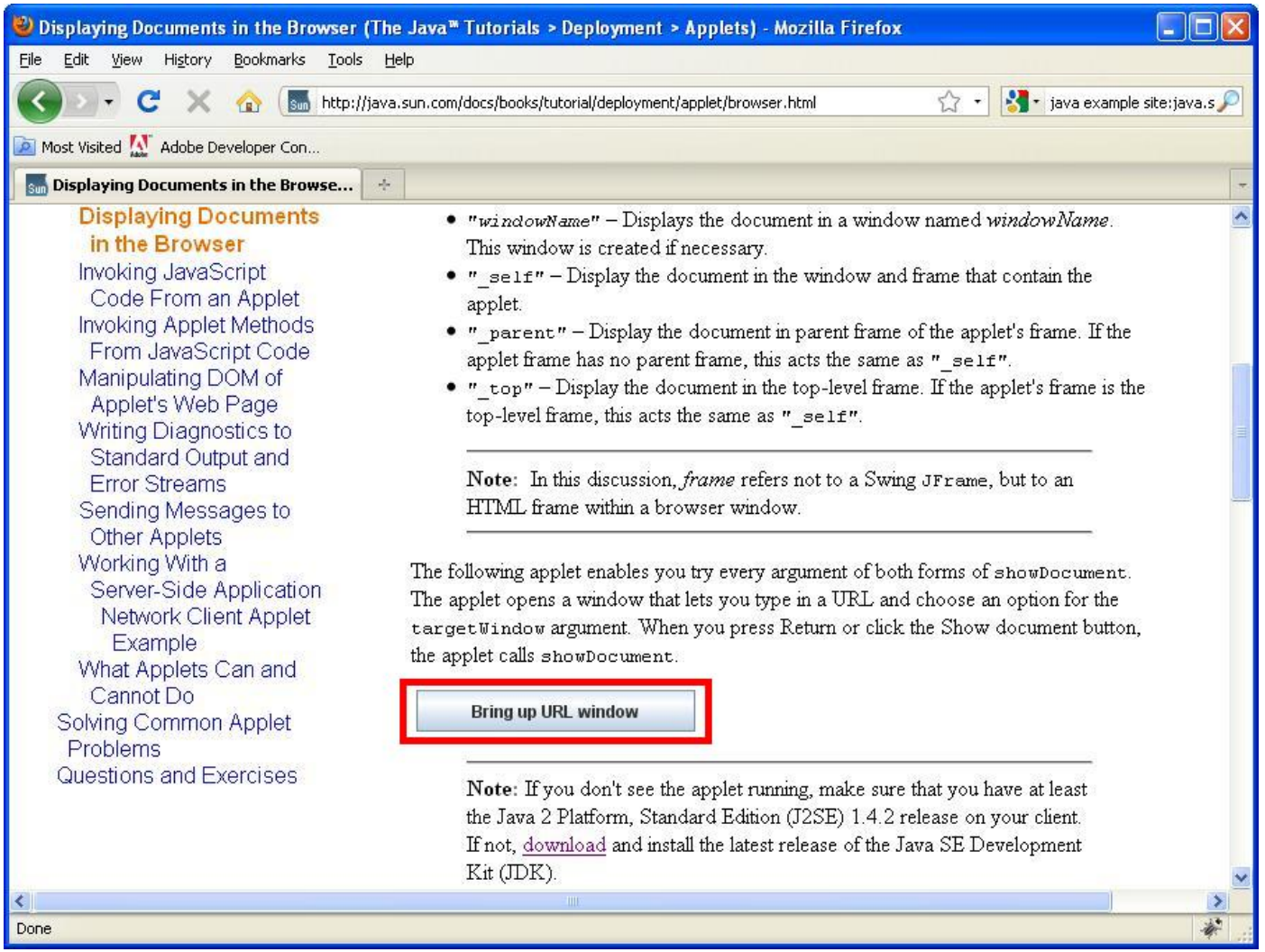
Claim	Claim Language	Evidence
		information about the Cascade mountain range (thanks to Wikipedia) and embeds World Wind Java as an applet to illustrate the locations of the mountains in the range. Incorporating World Wind in a web page is remarkably easy. Here is the <applet> tag embedding it on the page: <applet id="wwjApplet" width=600 height=380 code="gov.nasa.worldwind.examples.applet.WWJApplet" archive="BackwardCompatibility.jar"> <param name="jnlp_href" value="WWJApplet.jnlp"> </applet> " **Citation 1f(10):** J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "Web clients usually run inside a browser and use the services of the browser to render content provided by the Web tier. In these clients, the user interface is generated on the server side by the Web tier and communicated via HTML." **Citation 1f(11):** J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "Applets are delivered through applet tags embedded in HTML. The Web browser downloads the code for the applet at request time and executes it in a Java virtual machine on the client machine."

Claim	Claim Language	Evidence
		Citation 1f(12): Using Applet, Object, and Embed Tags, http://java.sun.com/j2se/1.5.0/docs/guide/plugin/developer_guide/using_tags.html. "You use the applet tag to deploy applets to a multi-browser environment. . . . The HTML specification states that the applet tag is deprecated, and that you should use the object tag instead. However, the specification is vague about how browsers should implement the object tag to support Java applets, and browser support is currently inconsistent. Sun therefore recommends that you continue to use the applet tag as a consistent way to deploy Java applets across browsers on all platforms." In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
1g	and enable an end-user to directly interact with said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) enable an end-user to directly interact with said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

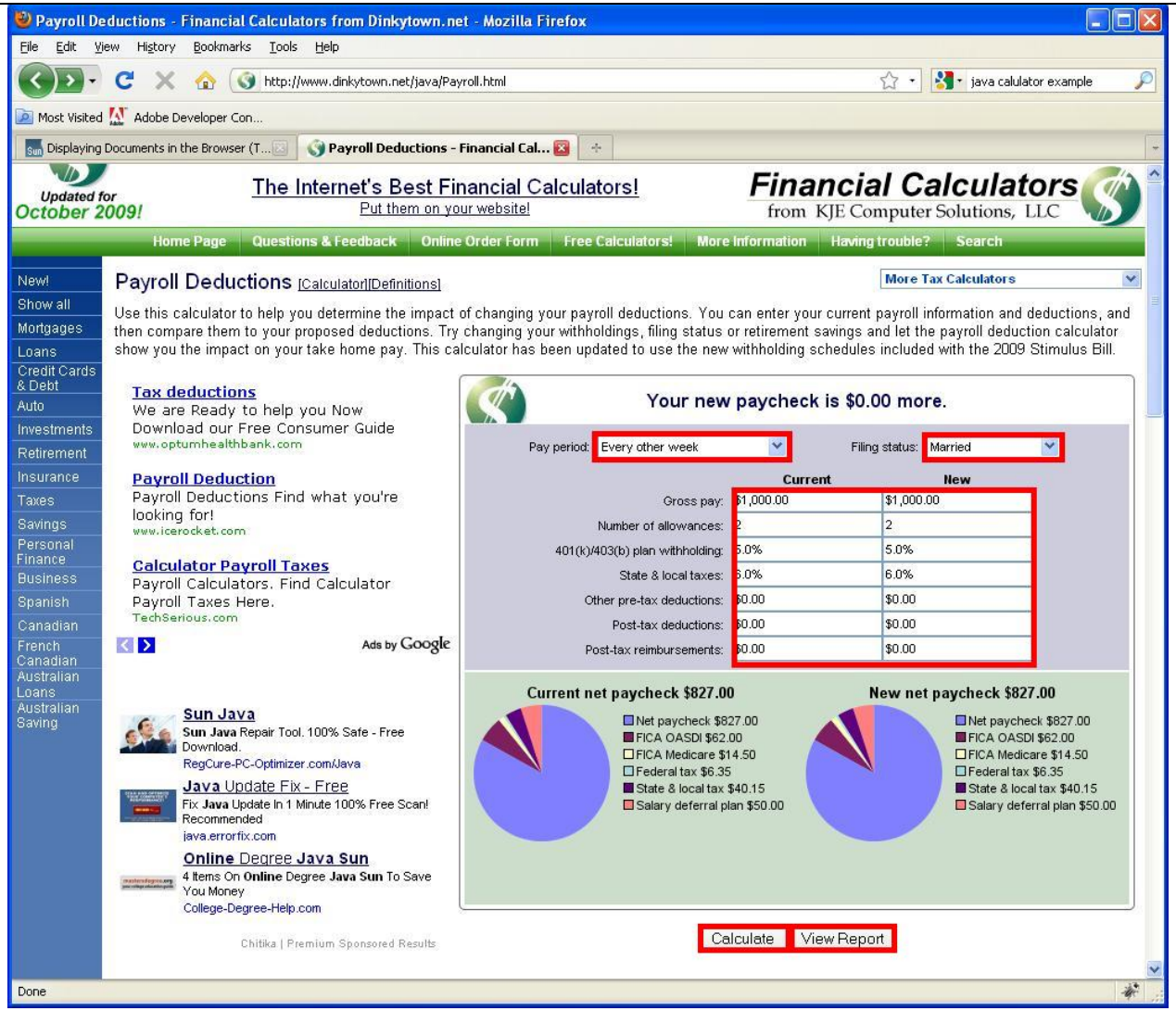
Claim	Claim Language	Evidence
	controlled window.	 Source: JavaFX MediaBox Player For Streaming Video,

Claim	Claim Language	Evidence
		http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence
		 Source: Shopping Mashup, http://javafx.com/samples/ShoppingMashup/index.html.

Claim	Claim Language	Evidence
		 Source: Displaying Documents in a Browser,

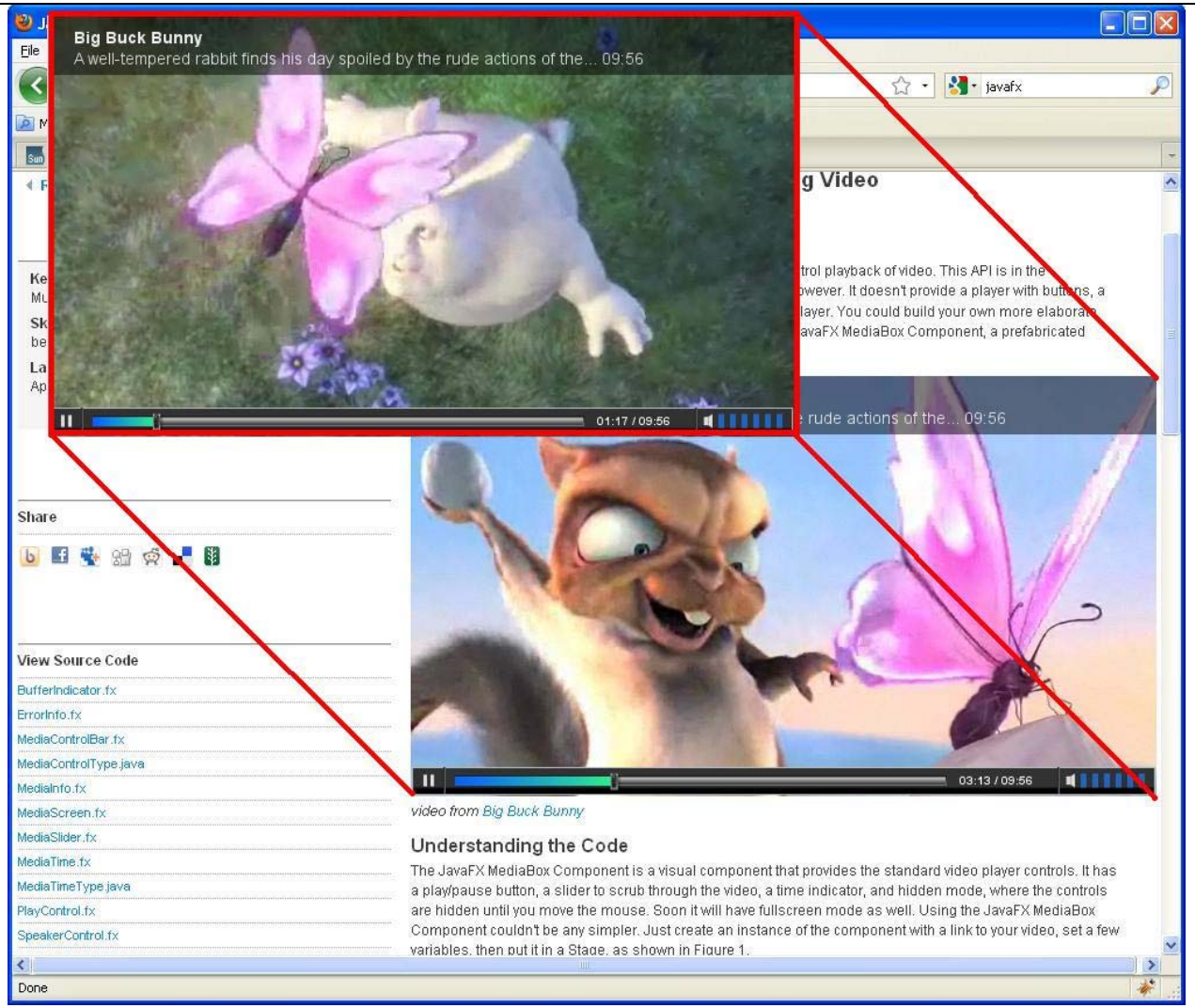
Claim	Claim Language	Evidence
		http://java.sun.com/docs/books/tutorial/deployment/applet/browser.html.

Claim	Claim Language	Evidence
		 Source: Payroll Deductions - Financial Calculators from Dinkytown.net,

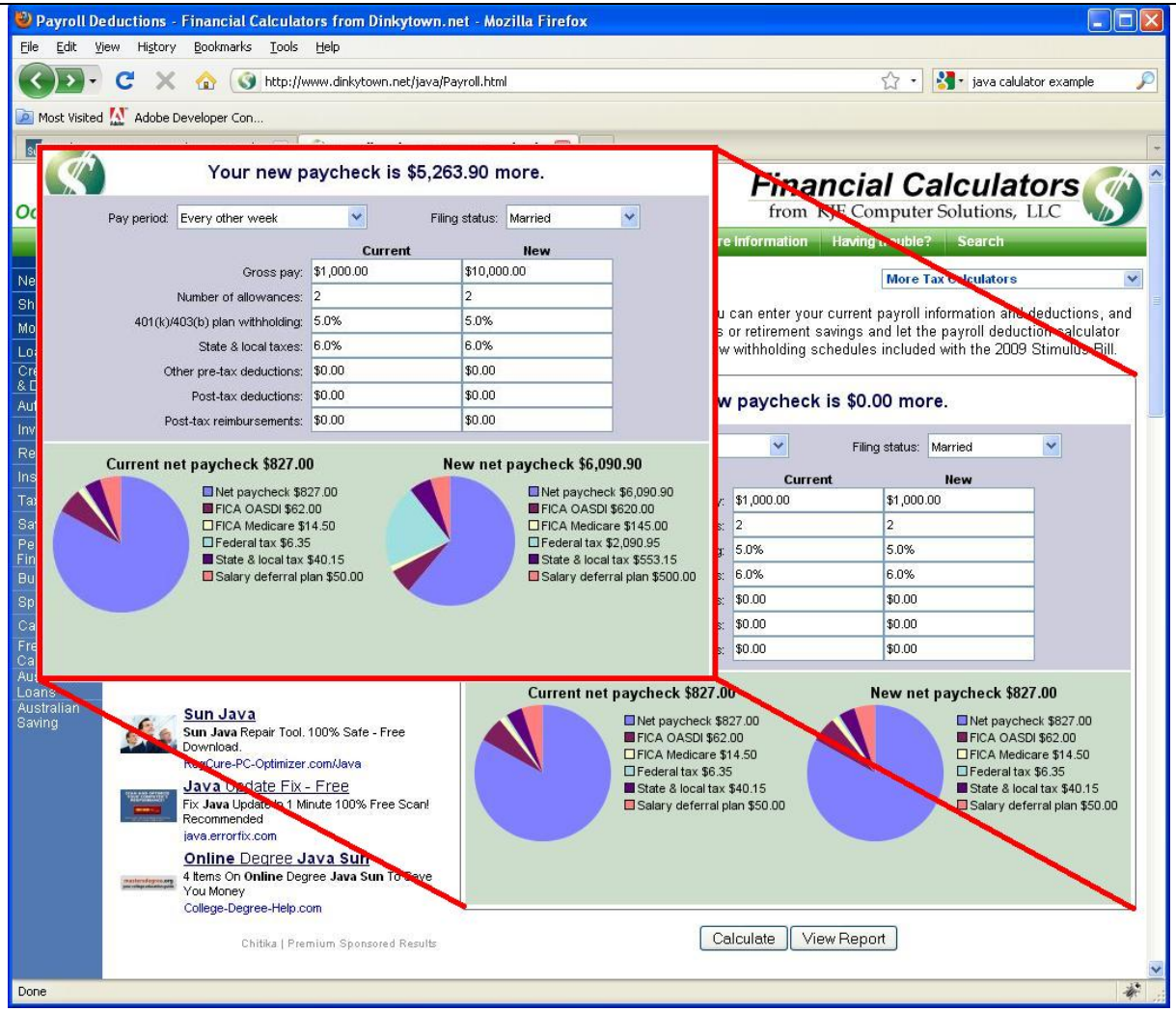
Claim	Claim Language	Evidence
		http://www.dinkytown.net/java/Payroll.html. **Citation 1g(5):** JavaFX MediaBox Player For Streaming Video. http://javafx.com/samples/MediaBox/index.html. "You could build your own more elaborate video player, but you have another option. You could use the JavaFX MediaBox Component, a prefabricated video player in the com.sun.javafx.mediabox package. . . . The JavaFX MediaBox Component is a visual component that provides the standard video player controls. It has a play/pause button, a slider to scrub through the video, a time indicator, and hidden mode, where the controls are hidden until you move the mouse." **Citation 1g(6):** Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "An applet runs in the context of a browser. The Java Plug-in software in the browser controls the launch and execution of applets. The browser also has a JavaScript interpreter, which runs the JavaScript code on a web page." **Citation 1g(7):** J2EE Architecture Approaches, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications_2e/app-arch/app-arch2.html. "Before delving into the design and architecture of the sample application, it is important to understand some commonly used J2EE architectural approaches. J2EE applications that are interactive benefit from using the Model-View-Controller (MVC) architecture. MVC is particularly well-suited for interactive Web applications--applications where a Web user interacts with a Web site, with multiple iterations of screen page displays and multiple round-trips of requesting and displaying data."

Claim	Claim Language	Evidence
		Citation 1g(8): J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "Web clients usually run inside a browser and use the services of the browser to render content provided by the Web tier. In these clients, the user interface is generated on the server side by the Web tier and communicated via HTML." In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
2pre	The method of claim **1**, wherein said executable application is a controllable application and further comprising the step of:	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content.

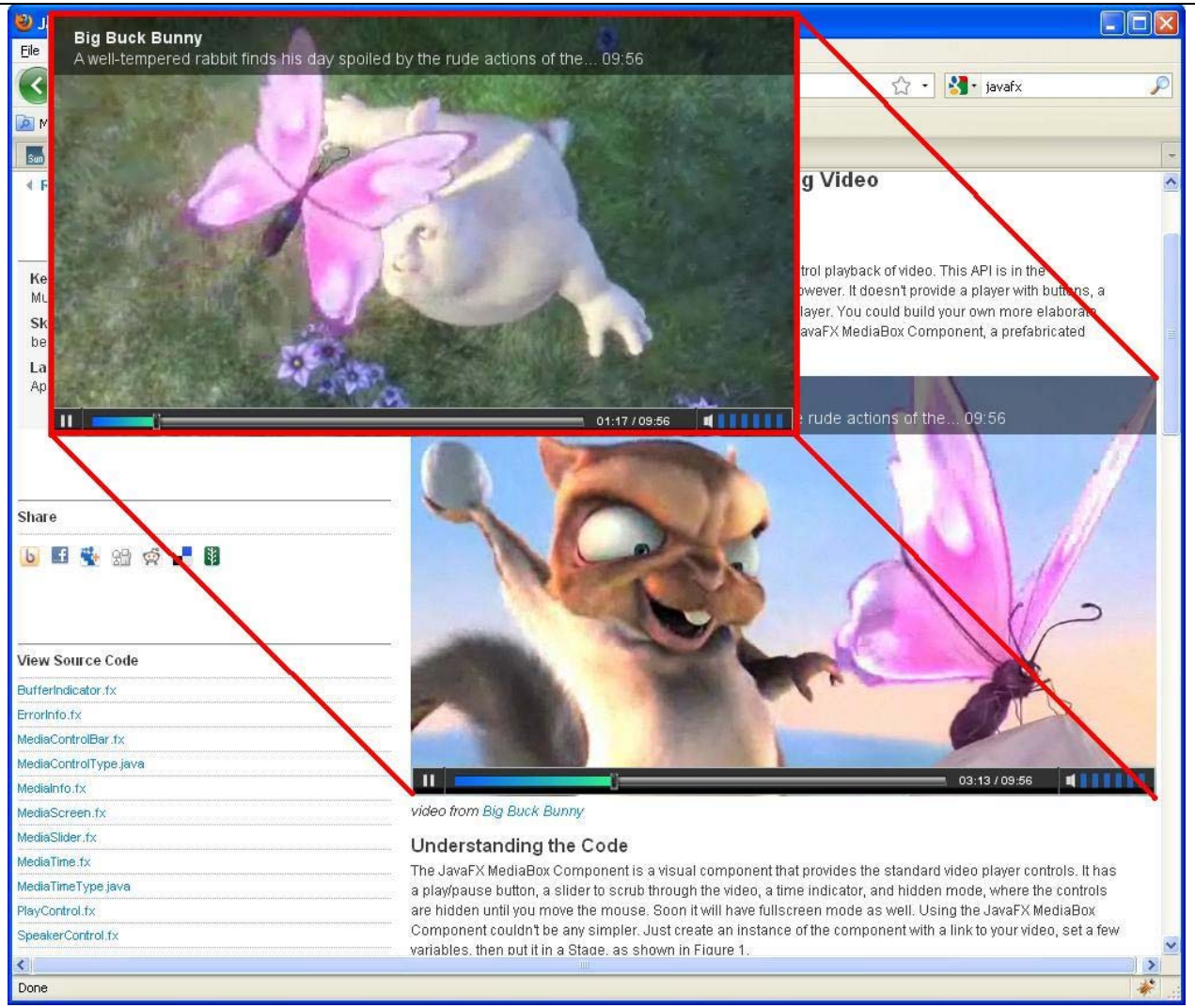
Claim	Claim Language	Evidence
		For example, users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) perform the method of claim 1, wherein said executable application is a controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

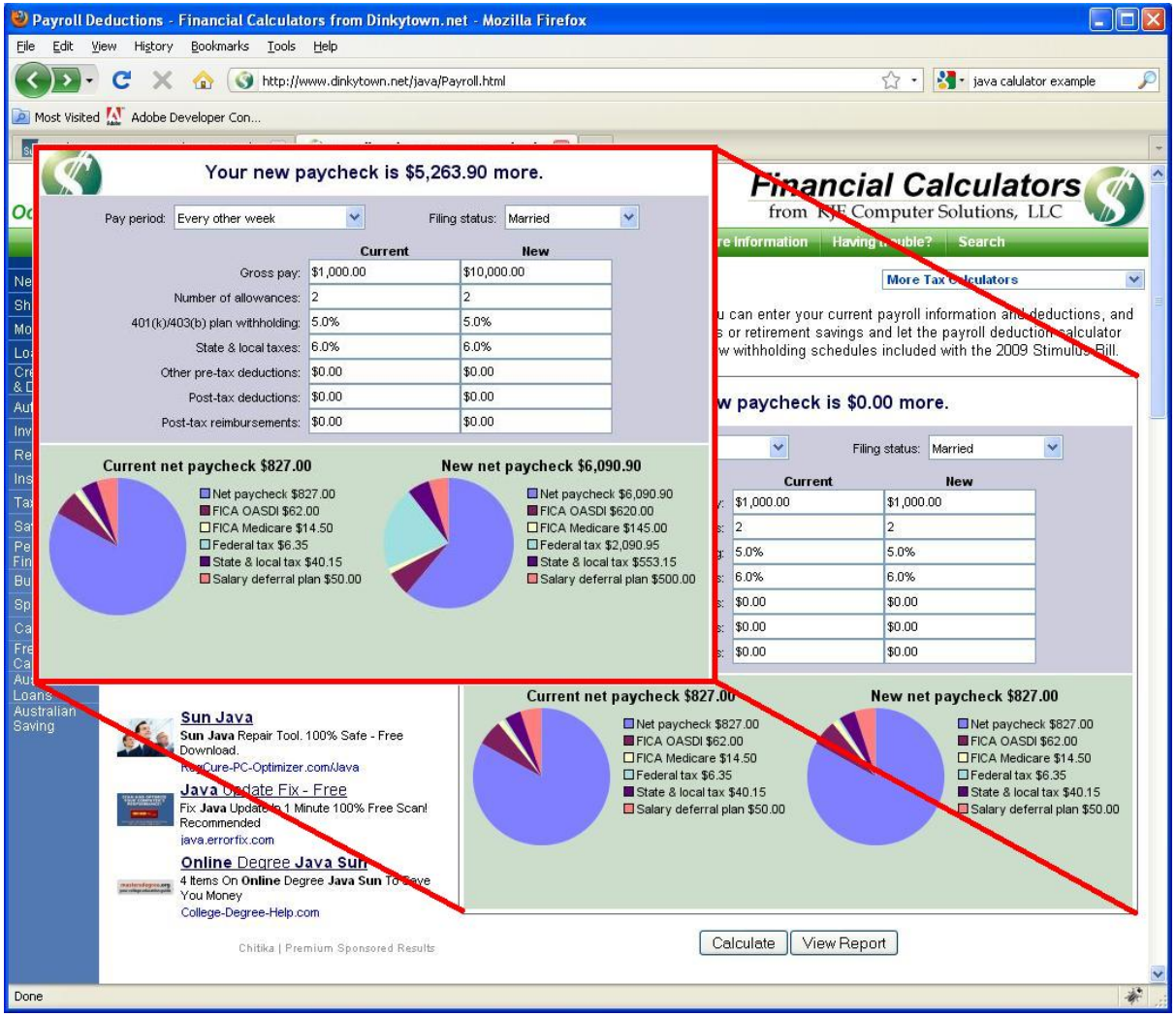
Claim	Claim Language	Evidence
		

Claim	Claim Language	Evidence
		Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence
		 Source: Payroll Deductions - Financial Calculators from Dinkytown.net, http://www.dinkytown.net/java/Payroll.html.

Claim	Claim Language	Evidence
		Citation 2pre(3): J2EE Architecture Approaches, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications_2e/app-arch/app-arch2.html. "Before delving into the design and architecture of the sample application, it is important to understand some commonly used J2EE architectural approaches. J2EE applications that are interactive benefit from using the Model-View-Controller (MVC) architecture. MVC is particularly well-suited for interactive Web applications--applications where a Web user interacts with a Web site, with multiple iterations of screen page displays and multiple round-trips of requesting and displaying data." **Citation 2pre(4):** Controlling Media Playback, http://javafx.com/docs/articles/media/playerControl.jsp. "This article discusses creating a full-functional media player with graphical UI elements that control the media playback." In addition, as set forth above, the Sun applications that view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
2a	interactively controlling said controllable application on said client workstation via inter-process communications between said	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
	browser and said controllable application.	 Source: JavaFX MediaBox Player For Streaming Video,

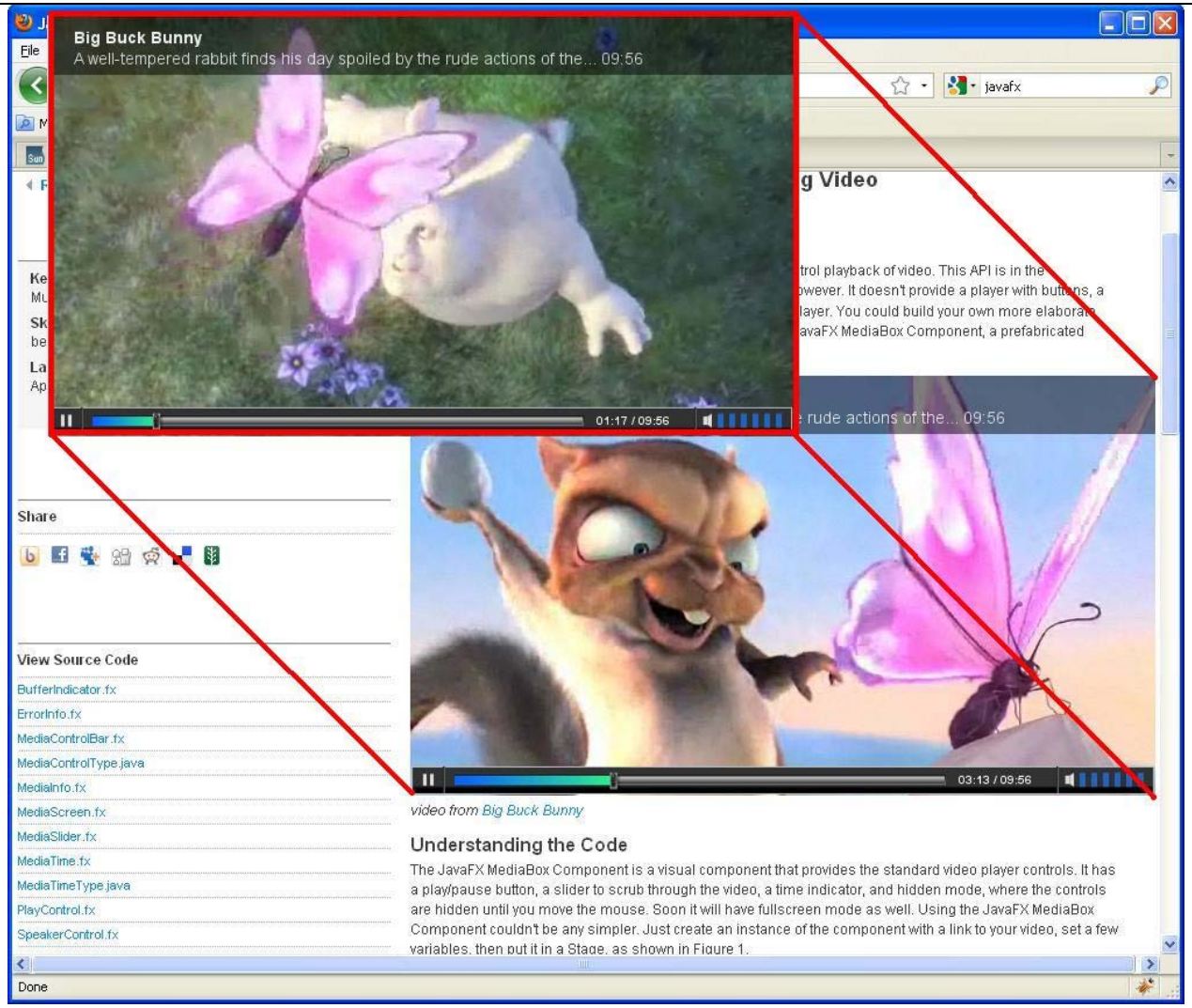
Claim	Claim Language	Evidence
		http://javafx.com/samples/MediaBox/index.html. 

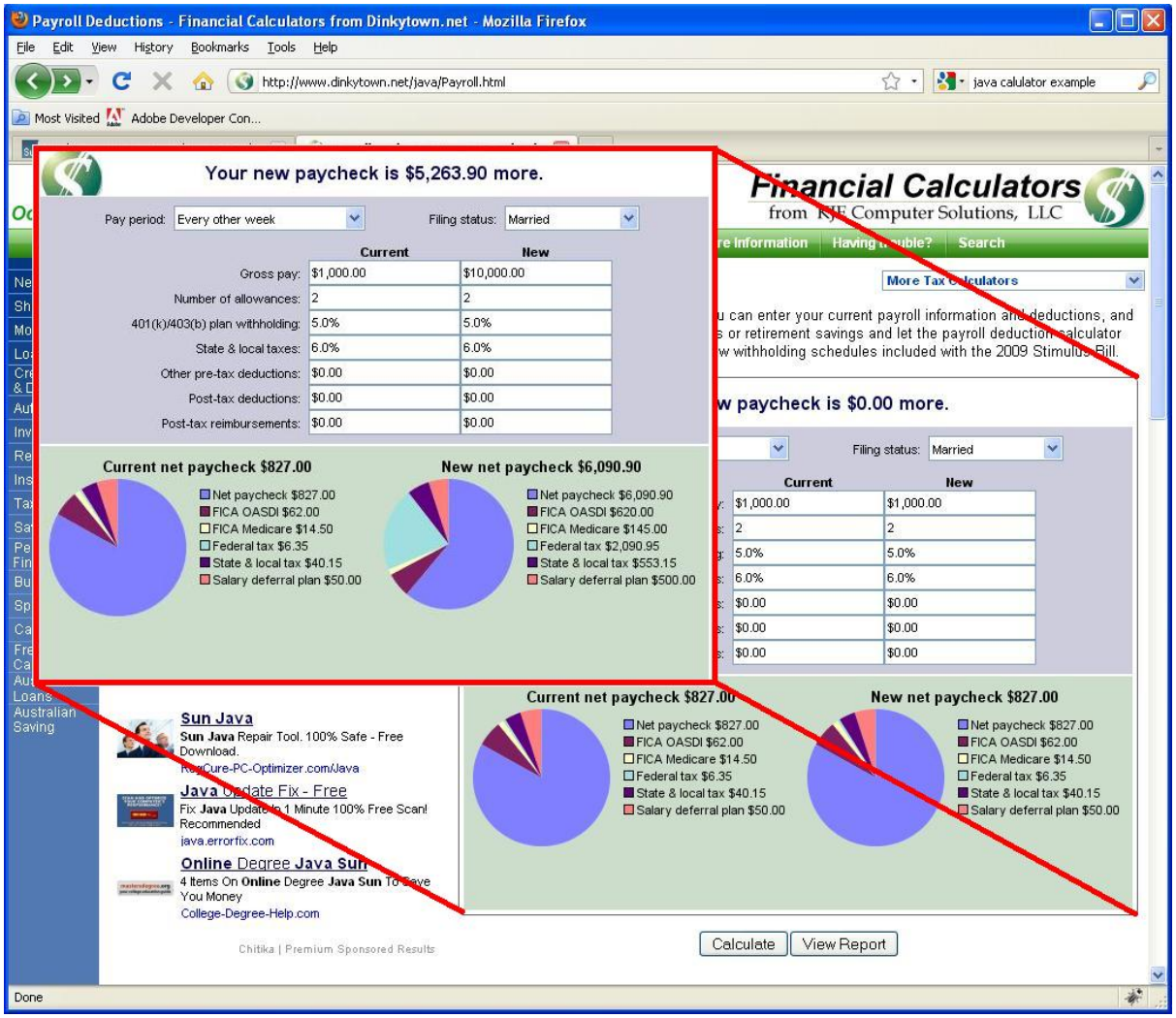
Claim	Claim Language	Evidence
		Source: Payroll Deductions - Financial Calculators from Dinkytown.net, http://www.dinkytown.net/java/Payroll.html. **Citation 2a(3):** Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "Applets can invoke JavaScript functions present in the web page. JavaScript functions are also allowed to invoke methods of an applet embedded on the same web page. The Java Plug-in software and the JavaScript interpreter orchestrate calls from Java code to JavaScript code and calls from JavaScript code to Java code. . . . The Java Plug-in software is multi-threaded, while the JavaScript interpreter runs on a single thread. Hence, to avoid thread-related issues, especially when multiple applets are running simultaneously, keep the calls between Java code and JavaScript code short, and avoid round trips, if possible." **Citation 2a(4):** Invoking a JavaScript Code from an Applet, http://java.sun.com/docs/books/tutorial/deployment/applet/invokingJavaScriptFromApplet.html. "Applets can invoke JavaScript functions present in the same web page as the applet. The LiveConnect Specification describes details about how JavaScript code communicates with Java code. The netscape.javascript.JSObject class enables applets to retrieve a reference to JavaScript objects and interact with the web page. The Data Summary applet described next invokes JavaScript code to retrieve information from the web page and writes a data summary back to the web page." *See also* the LiveConnect Specification, available at http://java.sun.com/javase/6/webnotes/6u10/plugin2/liveconnect/index.html. **Citation 2a(5):** Invoking Applet Methods From JavaScript Code,

Claim	Claim Language	Evidence
		http://java.sun.com/docs/books/tutorial/deployment/applet/invokingAppletMethodsFromJavaScript.html. "JavaScript code on a web page can interact with Java applets embedded on the page. JavaScript code can perform operations such as the following: Invoke methods on Java objects[,] Get and set fields in Java objects[,] Get and set Java array elements[, and] Create new instances of Java objects. The LiveConnect Specification describes details about how JavaScript code communicates with Java code." See also the LiveConnect Specification, available at http://java.sun.com/javase/6/webnotes/6u10/plugin2/liveconnect/index.html. **Citation 2a(6):** Doing More with Applets, http://java.sun.com/docs/books/tutorial/deployment/applet/doingMoreWithApplets.html. "The applet API enables you to take advantage of the close relationship that applets have with browsers. The API is provided by the javax.swing.JApplet class and the java.applet.AppletContext interface. The applet execution architecture enables applets to interact with their environment to produce a rich user experience. An applet can manipulate its parent web page, interact with JavaScript code in the web page, find other applets running in the same web page, and much more." **Citation 2a(7):** Interprocess communications, http://publib.boulder.ibm.com/infocenter/iseries/v5r4/index.jsp?topic=/rzaha/interpro.htm (explaining how to use the IBM Developer Kit for Java). "When communicating with programs that are running in another process, there are a number of options. One option is to use sockets for interprocess communication. One program can act as the server program that listens on a socket connection for input from the client program. The client program connects to the server with a socket. Once the socket connection is established, either program can send or receive information.

Claim	Claim Language	Evidence
		Another option is to use stream files for communication between programs. To do this, use the System.in, System.out, and System.err classes. A third option is to use the IBM® Toolbox for Java™, which provides data queues and System i5™ message objects." **Citation 2a(8):** JavaFX Script — JavaScript Bridge, http://javafx.com/docs/tutorials/javafx-javascript/. "When JavaFX content is hosted as an applet on a web page, the JavaFX Script code can interact with the web page, and JavaScript code on the web page can interact with the JavaFX Script code. This document provides an overview of the supported functionality." **Citation 2a(9):** How Java to Javascript Communication Works in Java Plug-in, http://java.sun.com/products/plugin/1.3/docs/jsobject.html. "Java applets may need to perform Java to JavaScript communication to access the Document Object Model (DOM) or to call JavaScript functions on an HTML page. Internet Explorer and Navigator allow communication between Java to JavaScript through the Java wrapper class netscape.javascript.JSObject." *See also* Java Packages for LiveConnect, http://developer.netscape.com/docs/manuals/communicator/jsref/pkg.htm. In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
3	The method of claim **2**, wherein the communications to interactively	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2

Claim	Claim Language	Evidence
	control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched.	• JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) perform the method of claim 2, wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence
		 Source: Payroll Deductions - Financial Calculators from Dinkytown.net,

Claim	Claim Language	Evidence
		http://www.dinkytown.net/java/Payroll.html. **Citation 3(3):** Applet's Execution Environment, http://java.sun.com/docs/books/tutorial/deployment/applet/appletExecutionEnv.html. "Applets can invoke JavaScript functions present in the web page. JavaScript functions are also allowed to invoke methods of an applet embedded on the same web page. The Java Plug-in software and the JavaScript interpreter orchestrate calls from Java code to JavaScript code and calls from JavaScript code to Java code. . . . The Java Plug-in software is multi-threaded, while the JavaScript interpreter runs on a single thread. Hence, to avoid thread-related issues, especially when multiple applets are running simultaneously, keep the calls between Java code and JavaScript code short, and avoid round trips, if possible." **Citation 3(4):** Invoking a JavaScript Code from an Applet, http://java.sun.com/docs/books/tutorial/deployment/applet/invokingJavaScriptFromApplet.html. "Applets can invoke JavaScript functions present in the same web page as the applet. The LiveConnect Specification describes details about how JavaScript code communicates with Java code. The netscape.javascript.JSObject class enables applets to retrieve a reference to JavaScript objects and interact with the web page. The Data Summary applet described next invokes JavaScript code to retrieve information from the web page and writes a data summary back to the web page." *See also* the LiveConnect Specification, available at http://java.sun.com/javase/6/webnotes/6u10/plugin2/liveconnect/index.html. **Citation 3(5):** Invoking Applet Methods From JavaScript Code, http://java.sun.com/docs/books/tutorial/deployment/applet/invokingAppletMethodsFromJavaScript.ht

Claim	Claim Language	Evidence
		ml. "JavaScript code on a web page can interact with Java applets embedded on the page. JavaScript code can perform operations such as the following: Invoke methods on Java objects[,] Get and set fields in Java objects[,] Get and set Java array elements[, and] Create new instances of Java objects. The LiveConnect Specification describes details about how JavaScript code communicates with Java code." See also the LiveConnect Specification, available at http://java.sun.com/javase/6/webnotes/6u10/plugin2/liveconnect/index.html. **Citation 3(6):** Doing More with Applets, http://java.sun.com/docs/books/tutorial/deployment/applet/doingMoreWithApplets.html. "The applet API enables you to take advantage of the close relationship that applets have with browsers. The API is provided by the javax.swing.JApplet class and the java.applet.AppletContext interface. The applet execution architecture enables applets to interact with their environment to produce a rich user experience. An applet can manipulate its parent web page, interact with JavaScript code in the web page, find other applets running in the same web page, and much more." **Citation 3(7):** Interprocess communications, http://publib.boulder.ibm.com/infocenter/iseries/v5r4/index.jsp?topic=/rzaha/interpro.htm (explaining how to use the IBM Developer Kit for Java). "When communicating with programs that are running in another process, there are a number of options. One option is to use sockets for interprocess communication. One program can act as the server program that listens on a socket connection for input from the client program. The client program connects to the server with a socket. Once the socket connection is established, either program can send or receive information. Another option is to use stream files for communication between programs. To do this, use the

Claim	Claim Language	Evidence
		System.in, System.out, and System.err classes. A third option is to use the IBM® Toolbox for Java™, which provides data queues and System i5™ message objects." **Citation 3(8):** JavaFX Script — JavaScript Bridge, http://javafx.com/docs/tutorials/javafx-javascript/. "When JavaFX content is hosted as an applet on a web page, the JavaFX Script code can interact with the web page, and JavaScript code on the web page can interact with the JavaFX Script code. This document provides an overview of the supported functionality." **Citation 3(9):** How Java to Javascript Communication Works in Java Plug-in, http://java.sun.com/products/plugin/1.3/docs/jsobject.html. "Java applets may need to perform Java to JavaScript communication to access the Document Object Model (DOM) or to call JavaScript functions on an HTML page. Internet Explorer and Navigator allow communication between Java to JavaScript through the Java wrapper class netscape.javascript.JSObject." *See also* Java Packages for LiveConnect, http://developer.netscape.com/docs/manuals/communicator/jsref/pkg.htm. In addition, as set forth above, the Sun applications that view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4pre	A method for running an application program in a computer network	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite

Claim	Claim Language	Evidence
	environment, comprising:	• Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) run an application program in a computer network environment. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1pre supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4a	providing at least	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers

Claim	Claim Language	Evidence
	one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment;	hosting the authoring tools (and/or the combination thereof) operate in an environment with at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1a supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4b	executing, at said client workstation, a browser application, that parses a first distributed hypermedia document to identify text formats included in said distributed	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) execute, at said client workstation, a browser application, that parses a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1b supra which is expressly incorporated herein.*

Claim	Claim Language	Evidence
	hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats;	In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4c	utilizing said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1c supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

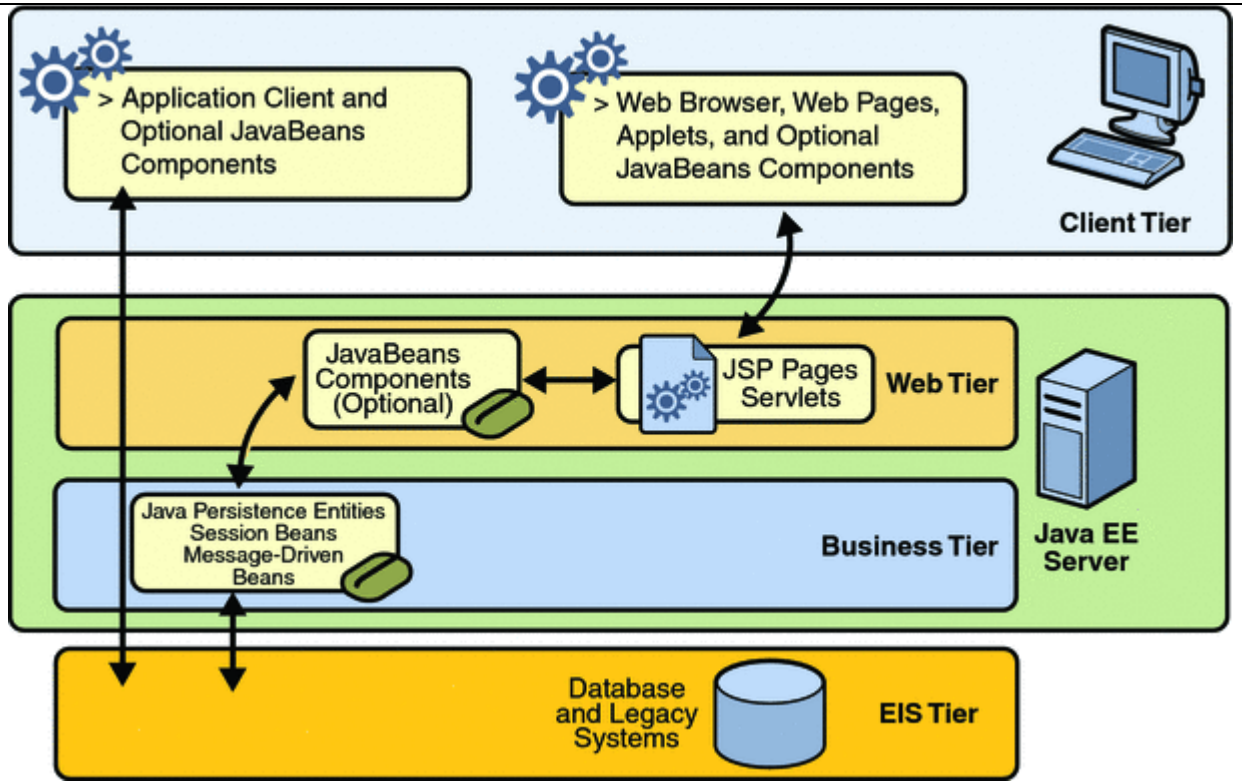
Claim	Claim Language	Evidence
	controlled window on said client workstation,	
4d	wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document,	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1d supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4e	wherein said object has type	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said

Claim	Claim Language	Evidence
	information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document,	object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1e supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4f	and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) s operate in an environment where said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1f supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this

Claim	Claim Language	Evidence
		element directly and indirectly (through contributory and/or induced infringement).
4g	and enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window.	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 1g supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4h	wherein said executable application is a controllable application and further comprising the step of:	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said executable application is a controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 2pre supra which is expressly*

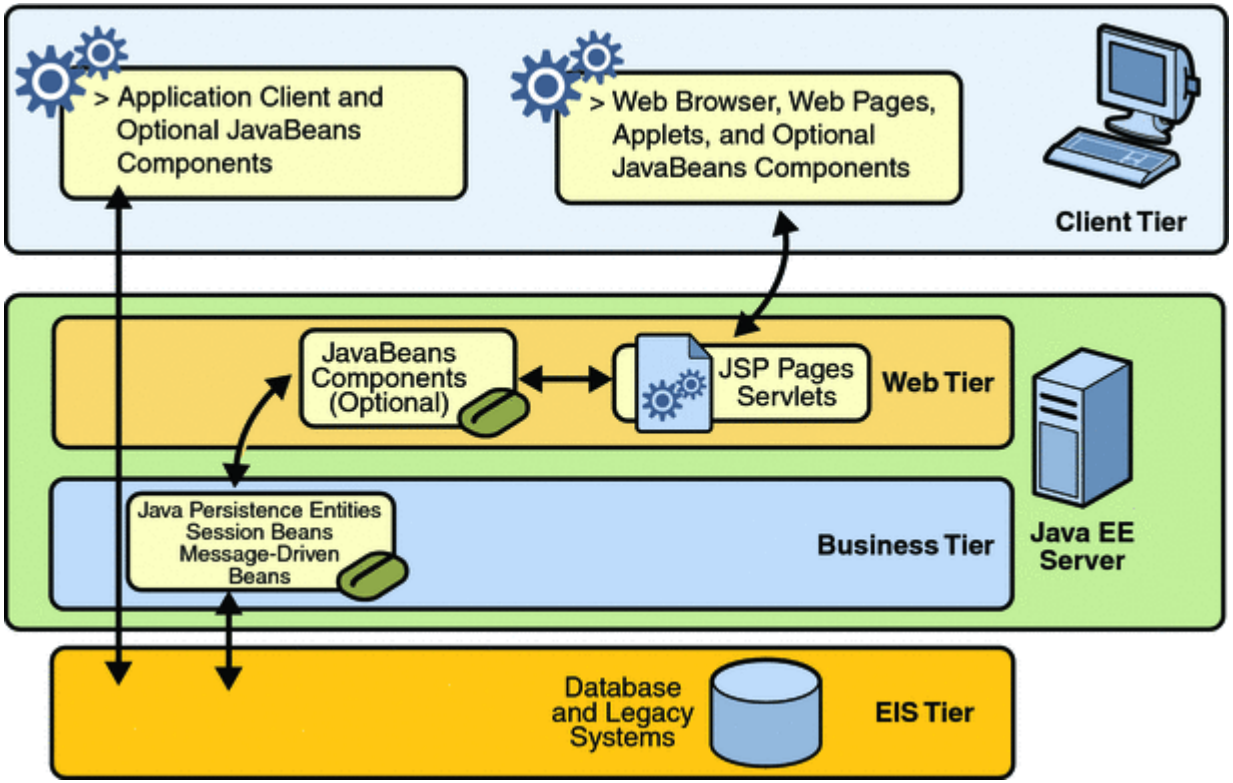
Claim	Claim Language	Evidence
		incorporated herein. In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4i	interactively controlling said controllable application on said client workstation via inter-process communications between said browser and said controllable application;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 2a supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4j	wherein the communications to interactively control said controllable application continue to be exchanged	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing

Claim	Claim Language	Evidence
	between the controllable application and the browser even after the controllable application program has been launched; and	manner in their default and expected uses. *See the evidence and information cited for the claim element 3 supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4k	wherein additional instructions for controlling said controllable application reside on said network server, wherein said step of interactively controlling said controllable application includes the following substeps:	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where additional instructions for controlling said controllable application reside on said network server. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: Distributed Multitiered Applicatoins, http://java.sun.com/javaee/6/docs/tutorial/doc/bnaay.html. **Citation 4k(2):** Processing the Response in the Client Using the MIME Type, http://docs.sun.com/app/docs/doc/819-2630/abumm?a=view. "The Service function generates the data and sends it to the client that made the request. When the server sends the data to the client, it also sends headers. These headers include whichever MIME type attributes are known (which is usually type).

Claim	Claim Language	Evidence
		When the client receives the data, it uses the MIME type to decide what to do with the data. For browser clients, the browser usually displays the data in the browser window. If the requested resource cannot be displayed in a browser but needs to be handled by another application, its type starts with application/, for example application/octet-stream (for .bin file extensions) or application/x-maker (for .fm file extensions). The client has its own set of user-editable mappings that tells it which application to use to handle which types of data." **Citation 4k(3):** Writing a Datagram Client and Server, http://java.sun.com/docs/books/tutorial/networking/datagrams/clientServer.html. "The example featured in this section consists of two applications: a client and a server. The server continuously receives datagram packets over a datagram socket. Each datagram packet received by the server indicates a client request for a quotation. When the server receives a datagram, it replies by sending a datagram packet that contains a one-line "quote of the moment" back to the client. The client application in this example is fairly simple. It sends a single datagram packet to the server indicating that the client would like to receive a quote of the moment. The client then waits for the server to send a datagram packet in response." In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4l	issuing, from the client workstation, one or more commands to the	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) issue, from the client workstation, one or more commands to the network server. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX

Claim	Claim Language	Evidence
	network server;	authoring tools in an infringing manner in their default and expected uses.

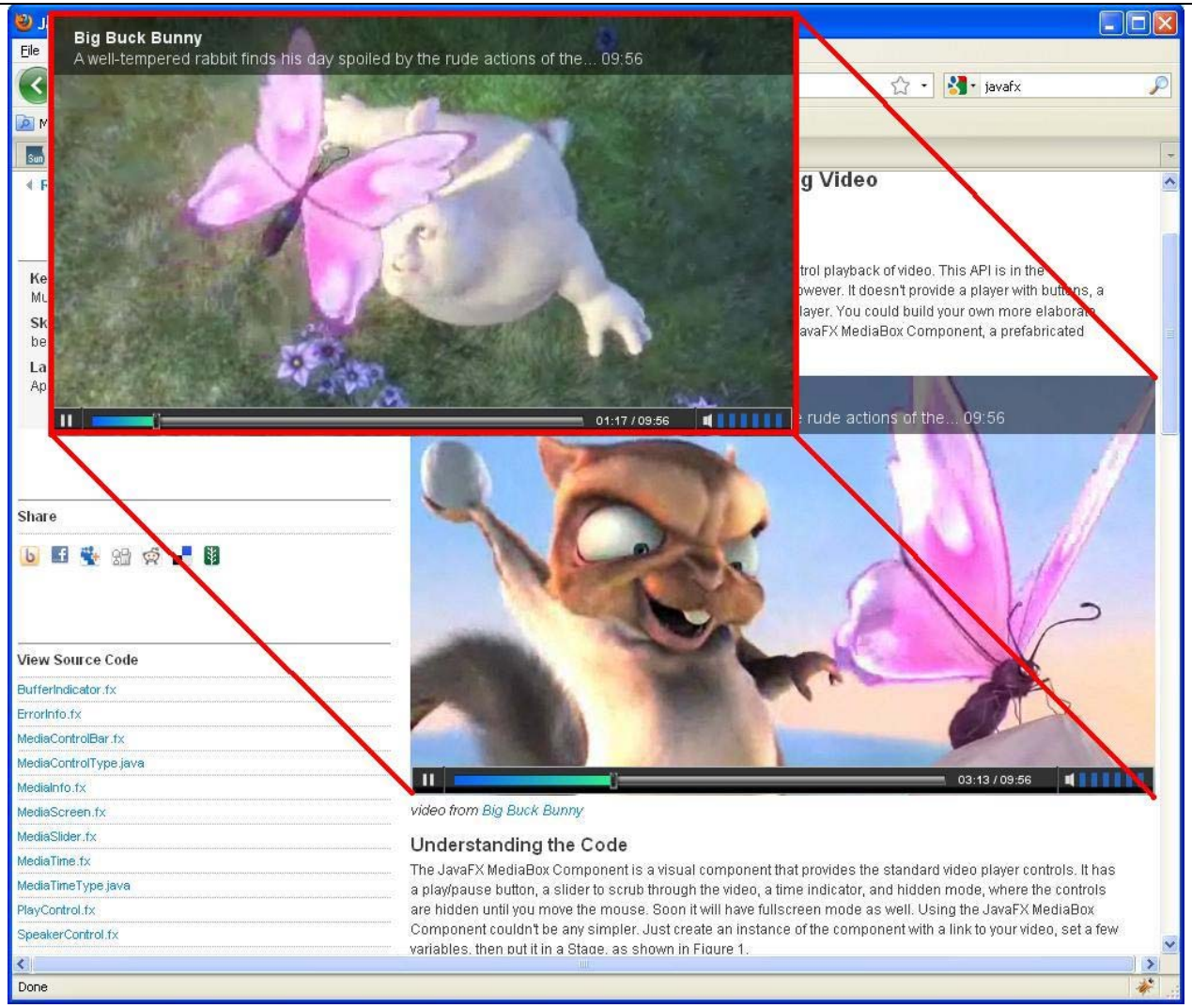


Source: Distributed Multitiered Applicatoins, http://java.sun.com/javaee/6/docs/tutorial/doc/bnaay.html.

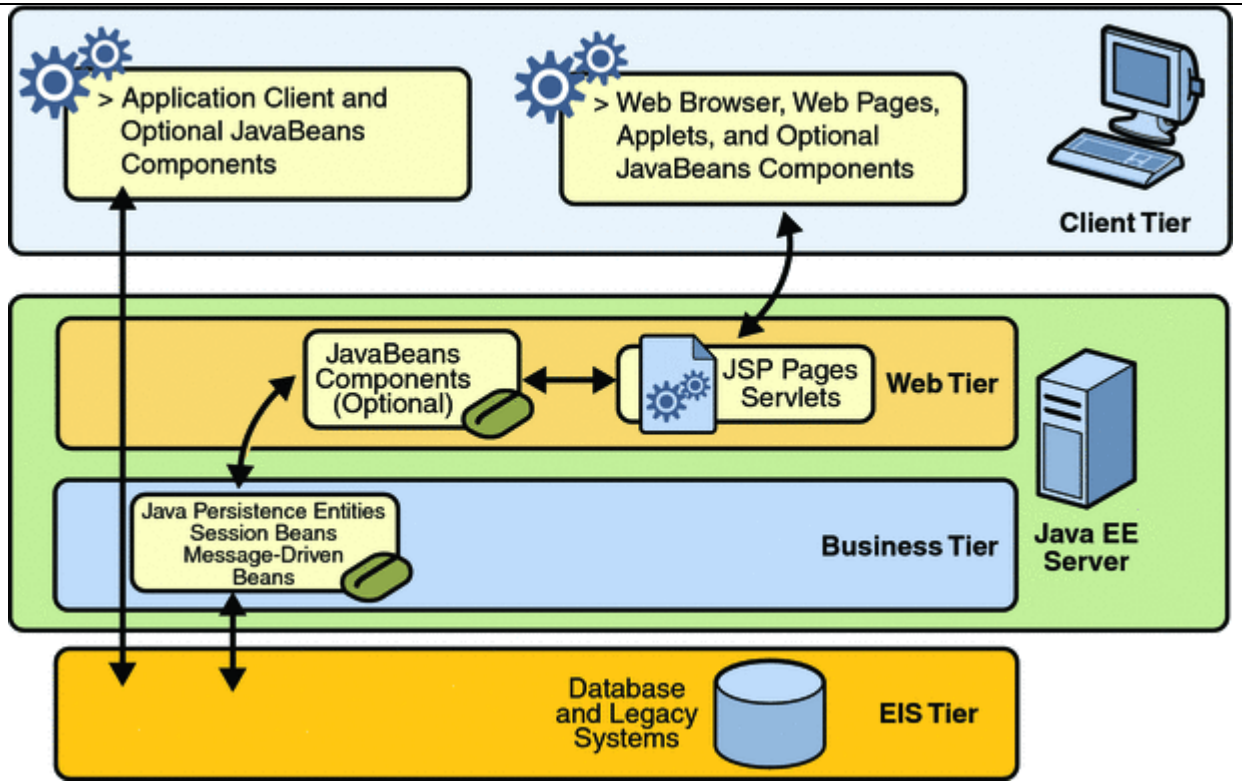
Citation 4l(2): Processing the Response in the Client Using the MIME Type, http://docs.sun.com/app/docs/doc/819-2630/abumm?a=view. "The Service function generates the data and sends it to the client that made the request. When the server sends the data to the client, it

Claim	Claim Language	Evidence
		also sends headers. These headers include whichever MIME type attributes are known (which is usually type). When the client receives the data, it uses the MIME type to decide what to do with the data. For browser clients, the browser usually displays the data in the browser window. If the requested resource cannot be displayed in a browser but needs to be handled by another application, its type starts with application/, for example application/octet-stream (for .bin file extensions) or application/x-maker (for .fm file extensions). The client has its own set of user-editable mappings that tells it which application to use to handle which types of data." **Citation 4l(3):** How HTTPS Works in Java Plug-in, http://java.sun.com/products/plugin/1.2/docs/https.html. "Because of various degrees of HTTPS support in different browsers at the API level, HTTPS support in Java Plug-in is currently limited to two types of requests: GET and POST. The GET method is used for retrieving information identified by a given URL, while the POST method is used for requesting the origin server accept the entity enclosed in the request." **Citation 4l(4):** J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "The content served over the HTTP protocol is typically the result of an action performed on the server in response to a client request. This result can be formatted using HTML or XML." **Citation 4l(5):** Writing a Datagram Client and Server, http://java.sun.com/docs/books/tutorial/networking/datagrams/clientServer.html. "The example featured in this section consists of two applications: a client and a server. The server continuously

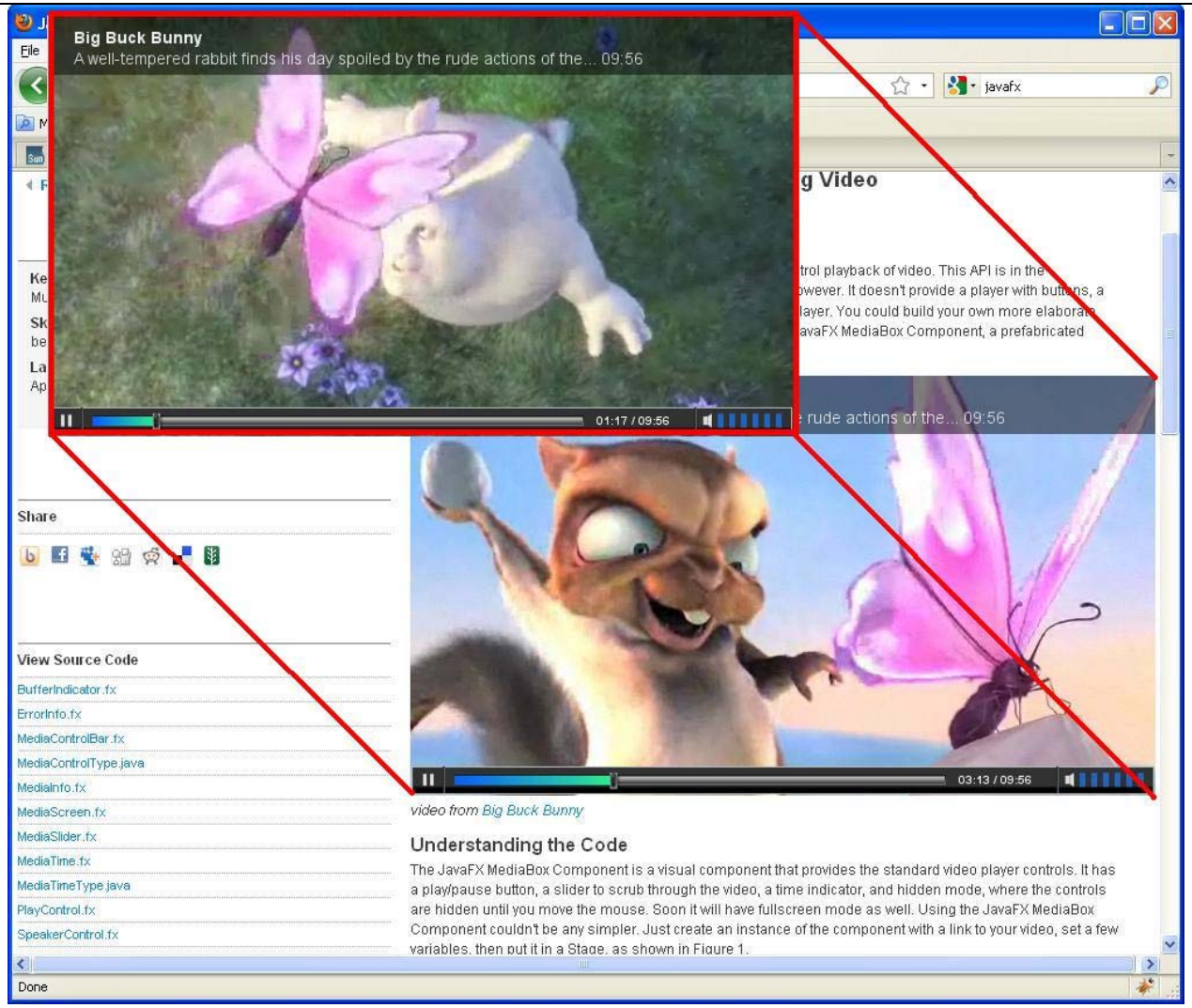
Claim	Claim Language	Evidence
		receives datagram packets over a datagram socket. Each datagram packet received by the server indicates a client request for a quotation. When the server receives a datagram, it replies by sending a datagram packet that contains a one-line "quote of the moment" back to the client. The client application in this example is fairly simple. It sends a single datagram packet to the server indicating that the client would like to receive a quote of the moment. The client then waits for the server to send a datagram packet in response."

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

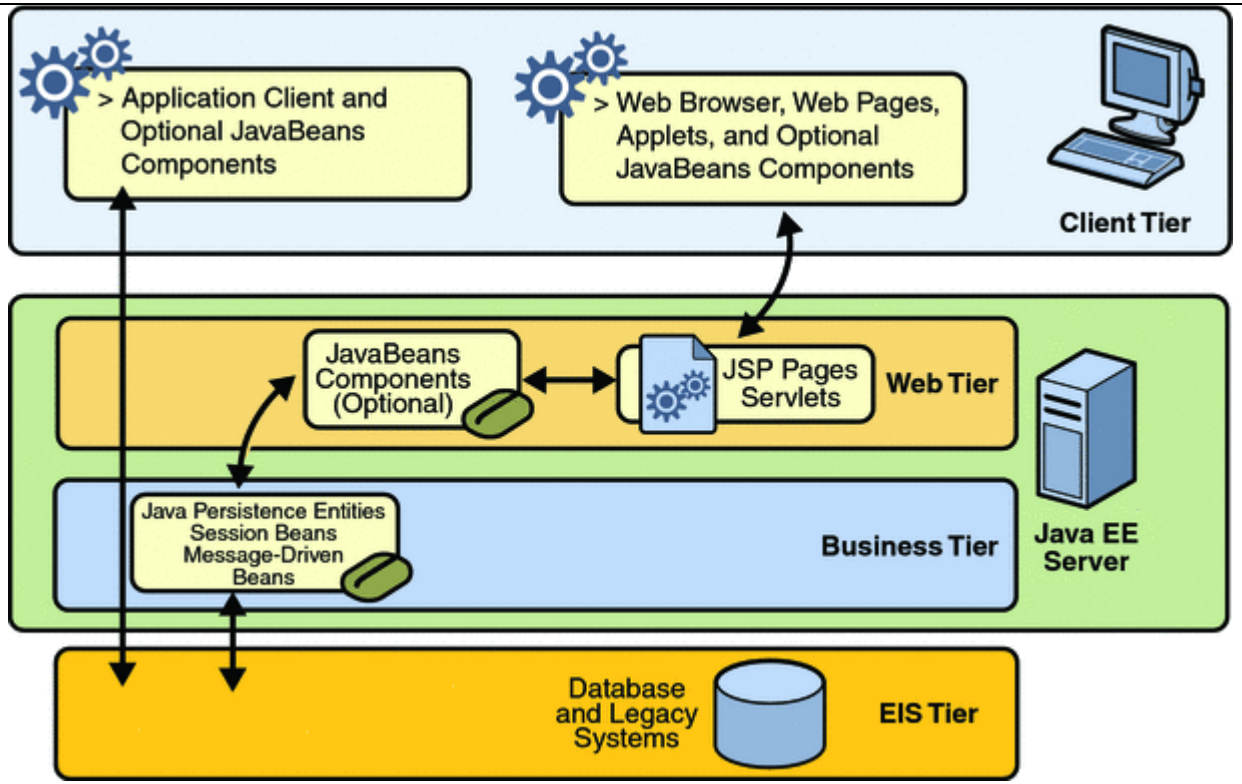
Claim	Claim Language	Evidence
		In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4m	executing, on the network server, one or more instructions in response to said commands;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) execute, on the network server, one or more instructions in response to said commands. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: Distributed Multitiered Applicatoins, http://java.sun.com/javaee/6/docs/tutorial/doc/bnaay.html. **Citation 4m(2):** Processing the Response in the Client Using the MIME Type, http://docs.sun.com/app/docs/doc/819-2630/abumm?a=view. "The Service function generates the data and sends it to the client that made the request. When the server sends the data to the client, it also sends headers. These headers include whichever MIME type attributes are known (which is usually type).

Claim	Claim Language	Evidence
		When the client receives the data, it uses the MIME type to decide what to do with the data. For browser clients, the browser usually displays the data in the browser window. If the requested resource cannot be displayed in a browser but needs to be handled by another application, its type starts with application/, for example application/octet-stream (for .bin file extensions) or application/x-maker (for .fm file extensions). The client has its own set of user-editable mappings that tells it which application to use to handle which types of data." **Citation 4m(3):** J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "The content served over the HTTP protocol is typically the result of an action performed on the server in response to a client request. This result can be formatted using HTML or XML."

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence
		In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4n	sending information from said network server to said client workstation in response to said executed instructions;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) send information from said network server to said client workstation in response to said executed instructions. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: Distributed Multitiered Applicatoins, http://java.sun.com/javaee/6/docs/tutorial/doc/bnaay.html. **Citation 4n(2):** Processing the Response in the Client Using the MIME Type, http://docs.sun.com/app/docs/doc/819-2630/abumm?a=view. "The Service function generates the data and sends it to the client that made the request. When the server sends the data to the client, it also sends headers. These headers include whichever MIME type attributes are known (which is usually type).

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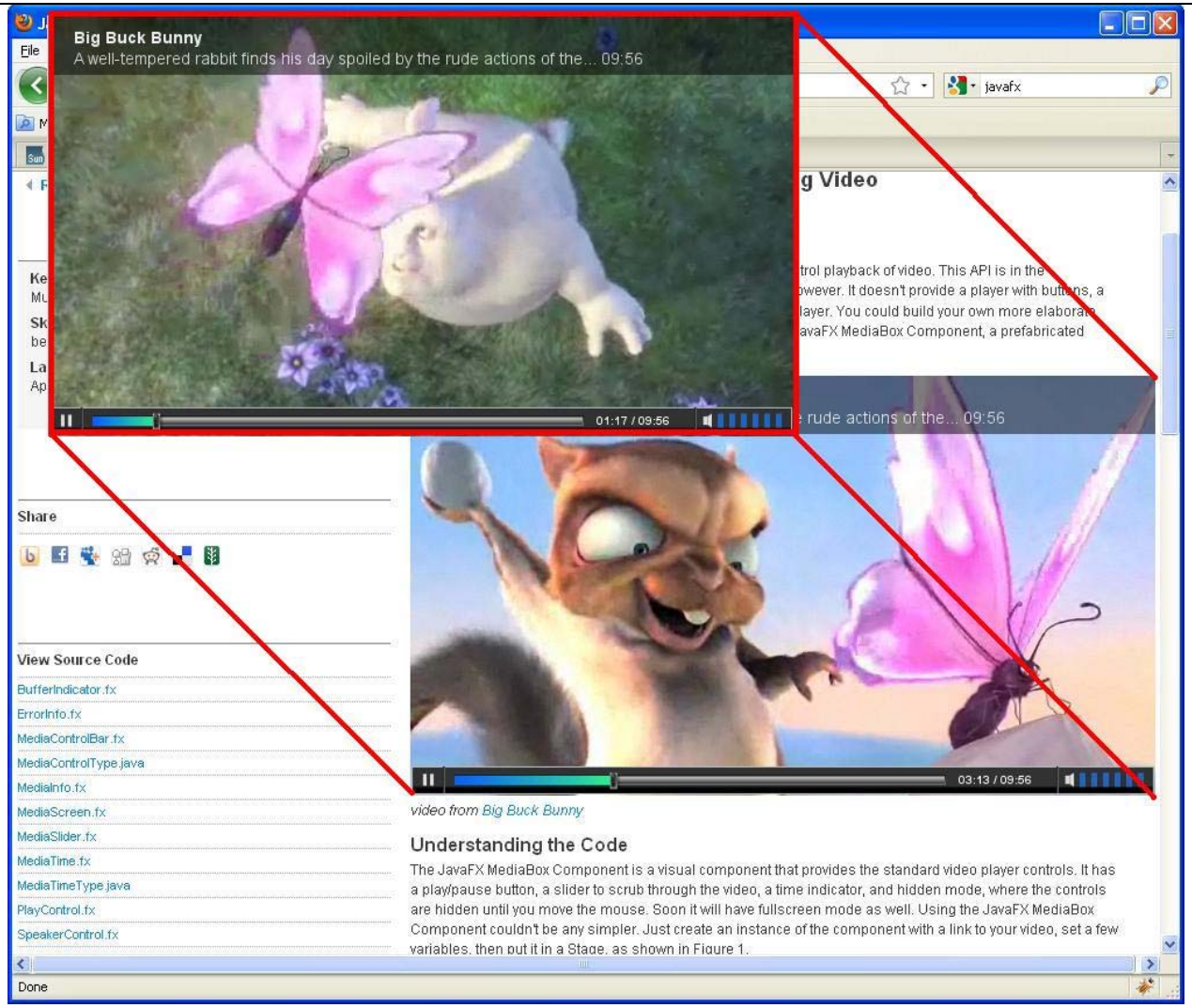
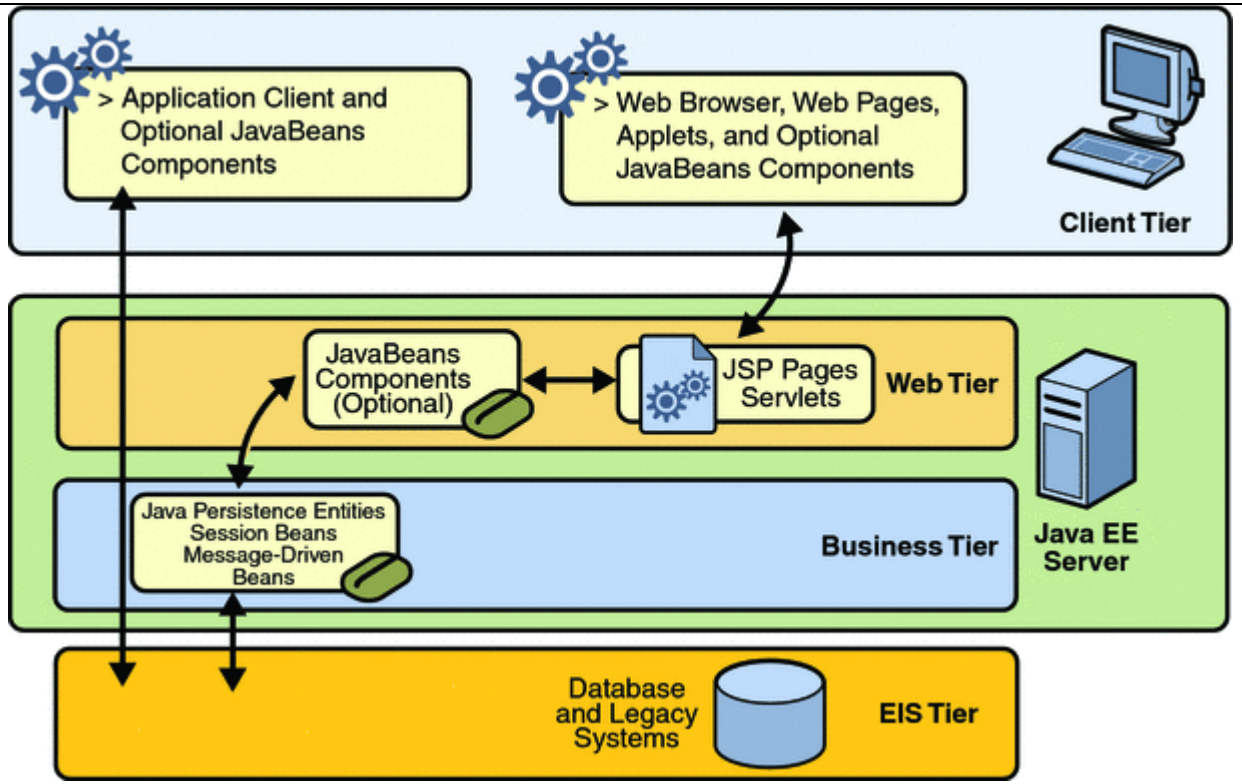
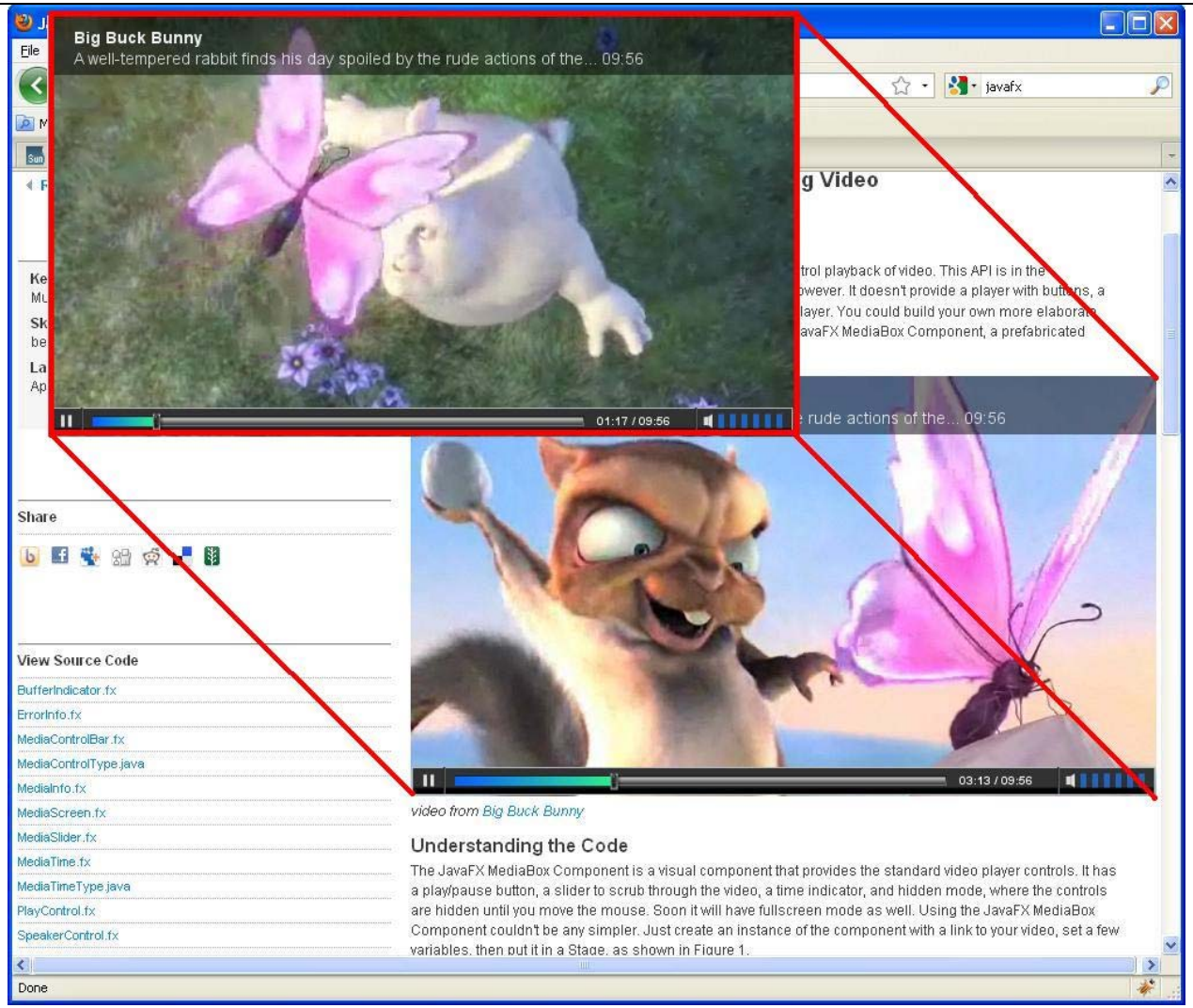
		When the client receives the data, it uses the MIME type to decide what to do with the data. For browser clients, the browser usually displays the data in the browser window. If the requested resource cannot be displayed in a browser but needs to be handled by another application, its type starts with application/, for example application/octet-stream (for .bin file extensions) or application/x-maker (for .fm file extensions). The client has its own set of user-editable mappings that tells it which application to use to handle which types of data." **Citation 4n(3):** J2EE BluePrints, http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/client_tier/web_clients/index.html. "The content served over the HTTP protocol is typically the result of an action performed on the server in response to a client request. This result can be formatted using HTML or XML."

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence
		In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
4o	and processing said information at the client workstation to interactively control said controllable application.	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) process said information at the client workstation to interactively control said controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
		 Source: Distributed Multitiered Applicatoins, http://java.sun.com/javaee/6/docs/tutorial/doc/bnaay.html. **Citation 4o(2):** Processing the Response in the Client Using the MIME Type, http://docs.sun.com/app/docs/doc/819-2630/abumm?a=view. "The Service function generates the data and sends it to the client that made the request. When the server sends the data to the client, it also sends headers. These headers include whichever MIME type attributes are known (which is usually type).

Claim	Claim Language	Evidence
		When the client receives the data, it uses the MIME type to decide what to do with the data. For browser clients, the browser usually displays the data in the browser window. If the requested resource cannot be displayed in a browser but needs to be handled by another application, its type starts with application/, for example application/octet-stream (for .bin file extensions) or application/x-maker (for .fm file extensions). The client has its own set of user-editable mappings that tells it which application to use to handle which types of data."

Claim	Claim Language	Evidence
		 Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html.

Claim	Claim Language	Evidence
		In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5pre	A method for running an application program in a computer network environment, comprising:	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) run an application program in a computer network environment. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX

Claim	Claim Language	Evidence
		authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1pre supra which is expressly incorporated herein.* In addition, as set forth above, the Sun applications that view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5a	providing at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) provide at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1a supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5b	executing, at said client workstation,	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) execute, at said client workstation, a

Claim	Claim Language	Evidence
	a browser application, that parses a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats;	browser application, that parses a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1b supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5c	utilizing said browser to display, on said client workstation, at least a portion of a first hypermedia	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or

Claim	Claim Language	Evidence
	document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation,	JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1c supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5d	wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1d supra which is expressly incorporated herein.*

Claim	Claim Language	Evidence
	location of at least a portion of an object external to the first distributed hypermedia document,	In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5e	wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document,	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1e supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5f	and wherein said embed text format is parsed by said	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said embed text format is parsed by said browser to automatically invoke said executable application to

Claim	Claim Language	Evidence
	browser to automatically invoke said executable application to execute on said client workstation in order to display said object	execute on said client workstation in order to display said object. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1f supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5g	and enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said embed text format is parsed by said browser to automatically invoke said executable application to enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 1g supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this

Claim	Claim Language	Evidence
	controlled window.	element directly and indirectly (through contributory and/or induced infringement).
5h	wherein said executable application is a controllable application and further comprising the step of:	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said executable application is a controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 2pre supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5i	interactively controlling said controllable application on said client workstation via inter-process communications between said browser and said controllable	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 2a supra which is expressly incorporated herein.*

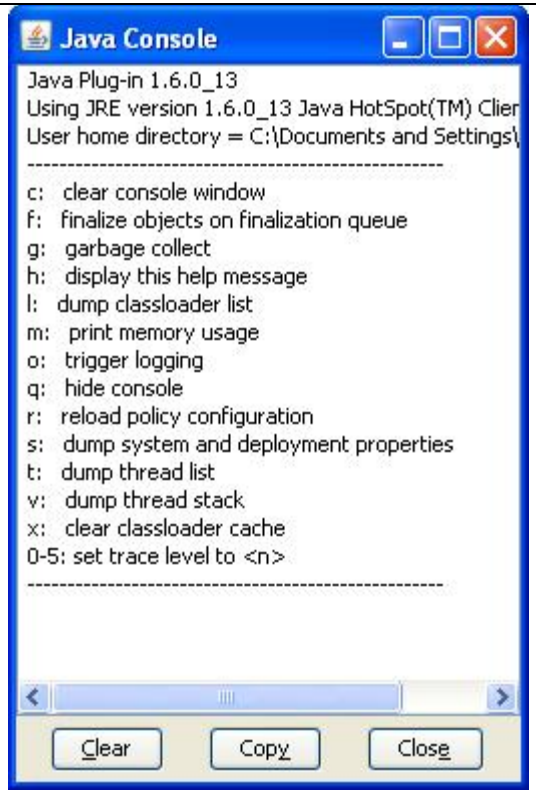
Claim	Claim Language	Evidence
	application;	In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5j	wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 3 supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5k	wherein additional instructions for controlling said controllable application reside on said network server, wherein	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where the additional instructions for controlling said controllable application reside on said network server. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
	said step of interactively controlling said controllable application includes the following substeps:	*See the evidence and information cited for the claim element 4k supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5l	issuing, from the client workstation, one or more commands to the network server;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) issue, from the client workstation, one or more commands to the network server. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4l supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5m	executing, on the network server, one or more instructions in	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) execute, on the network server, one or more instructions in response to said commands. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or

Claim	Claim Language	Evidence
	response to said commands;	JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4m supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5n	sending information from said network server to said client workstation in response to said executed instructions;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) send information from said network server to said client workstation in response to said executed instructions. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4n supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5o	and processing said information at the client workstation	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) process said information at the client workstation to interactively control said controllable application. In addition, Sun provides the

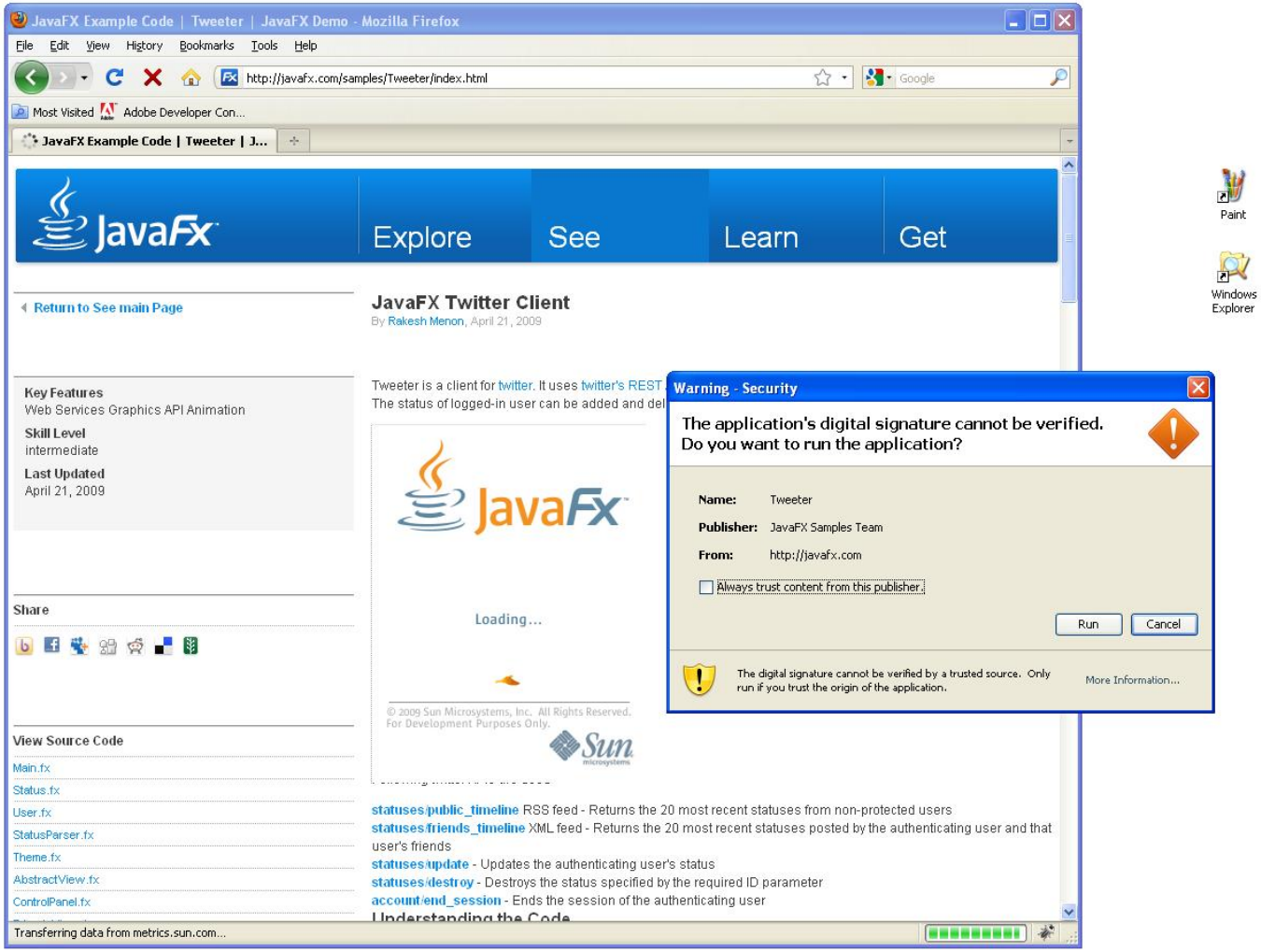
Claim	Claim Language	Evidence
	to interactively control said controllable application; and	infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4o supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
5p	wherein said additional instructions for controlling said controllable application reside on said client workstation.	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) operate in an environment where said additional instructions for controlling said controllable application reside on said client workstation. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. **Citation 5p(1):** Java Control Panel, http://java.sun.com/j2se/1.5.0/docs/guide/deployment/deployment-guide/jcp.html. "The Java Control Panel is a multipurpose control panel. It allows you to view and set a wide range of parameters controlling how Java runs on your computer. It lets you view and delete temporary files used for Java Plug-in, which allows Sun Java to be used by your web browser to run applets, and Java Web Start, which allows you to run Java applications over the network. It allows you to control certificates, making it safe to run applets and applications over the network. It allows you to set runtime

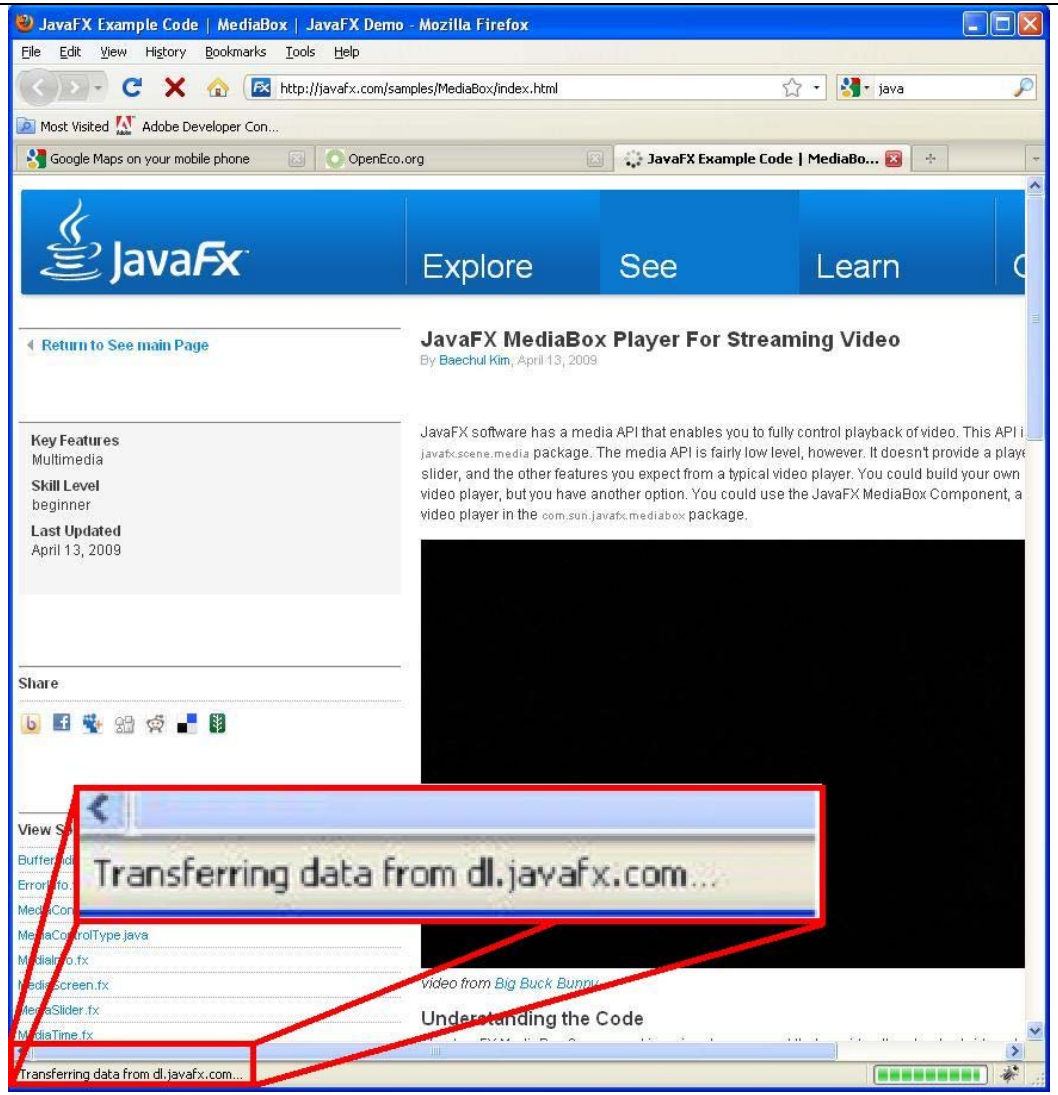
Claim	Claim Language	Evidence
		parameters for applets run with Java Plug-in and applications run with Java Web Start. It provides a mechanism for updating your version of Java so that you always have the latest. And it allows you to set options for debugging, desktop integration, applet handling, etc." **Citation 5p(2):** How do I enable Java through the Control Panel?, http://www.java.com/en/download/help/enable_panel.xml. "To see whether your browser is configured to use Java or not, first open Windows Control Panel. From the Start menu button, select Settings, then Control Panel to open the Control Panel. You should see Java Coffee Cup logo icon in the Control Panel."

Claim	Claim Language	Evidence
		 Source: Java Console (To access Java Console while the JRE is running, right-click on the Java Icon in the menu bar and select Open Console, as show below.)

Claim	Claim Language	Evidence
		 In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
6pre	A computer program product for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME)

Claim	Claim Language	Evidence
	environment, the computer program product comprising:	and any other tools used to create Java, JavaFX, or similar content. For example, the Sun Java and/or JavaFX authoring tools are computer program products for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment, the computer program product further comprising the elements set forth below. *See the evidence and information cited for the claim elements 1pre and 1a supra which is expressly incorporated herein.* In addition, the Sun applications to view Java and/or JavaFX content are computer usable mediums having computer readable program code physically embodied therein that also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement) for the reasons given above.
6a	a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprising:	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code physically embodied therein, said computer program product further comprising the elements set forth below.

Claim	Claim Language	Evidence
		 Source: JavaFX Example Code Twitter, http://javafx.com/samples/Tweeter/index.html.

Claim	Claim Language	Evidence
		

Claim	Claim Language	Evidence
		Source: JavaFX MediaBox Player For Streaming Video, http://javafx.com/samples/MediaBox/index.html. **Citation 6a(3):** Learn about JAVA Technology, http://java.com/en/about/. "Java technology's versatility, efficiency, platform portability, and security make it the ideal technology for network computing. From laptops to datacenters, game consoles to scientific supercomputers, cell phones to the Internet, Java is everywhere!" **Citation 6a(4):** Learn about JAVA Technology, http://java.com/en/about/. "JavaFX extends your web experience by delivering rich media and content across all the screens of your life. As users, you will be able to run JavaFX applications in a browser or drag and drop them onto the desktop." **Citation 6a(5):** Lesson: Packing Programs in JAR Files, http://java.sun.com/docs/books/tutorial/deployment/jar/. "The JavaTM Archive (JAR) file format enables you to bundle multiple files into a single archive file. Typically a JAR file contains the class files and auxiliary resources associated with applets and applications." **Citation 6a(6):** Running JAR-Packaged Software, http://java.sun.com/docs/books/tutorial/deployment/jar/run.html. "Now that you've learned how to create JAR files, how do you actually run the code that you've packaged? . . . To invoke any applet from an HTML file for running inside a browser, you need to use the APPLET tag. For more information, see the Applets lesson. If the applet is bundled as a JAR file, the only thing you need to do differently is to use the ARCHIVE parameter to specify the relative path to the JAR file."

Claim	Claim Language	Evidence
		In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
6b	computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats. *See the evidence and information cited for claim element 1b supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
6c	computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation,	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation. *See the evidence and information cited for claim element 1c supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
6d	wherein said first distributed	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable

Claim	Claim Language	Evidence
	hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document,	medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document. *See the evidence and information cited for claim element 1d supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
6e	wherein said object has type information associated with it utilized by said browser to identify and locate an executable	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document.

Claim	Claim Language	Evidence
	application external to the first distributed hypermedia document,	*See the evidence and information cited for claim element 1e supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
6f	and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object. *See the evidence and information cited for claim element 1f supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
6g	and enable an end-user to directly interact with said object within a	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or

Claim	Claim Language	Evidence
	display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window.	JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code to enable an end-user to directly interact with said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window. *See the evidence and information cited for claim element 1g supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
7pre	The computer program product of claim **6**, wherein said executable application is a controllable application and further comprising:	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System

Claim	Claim Language	Evidence
		• Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, the Sun Java and/or JavaFX authoring tools are computer program products of claim 6, wherein said executable application is a controllable application. *See the evidence and information cited for claim element 2 pre supra which is expressly incorporated herein.* In addition, the Sun applications to view Java and/or JavaFX content are computer usable mediums having computer readable program code physically embodied therein that also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement) for the reasons given above.
7a	computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation via inter-process communications	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application. *See the evidence and information cited for claim element 2a supra which is expressly incorporated*

Claim	Claim Language	Evidence
	between said browser and said controllable application.	*herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
8	The computer program product of claim **7**, wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched.	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, the Sun Java and/or JavaFX authoring tools are computer program products of claim 7, wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application

Claim	Claim Language	Evidence
		program has been launched. *See the evidence and information cited for claim element 3 supra which is expressly incorporated herein.* In addition, the Sun applications to view Java and/or JavaFX content are computer usable mediums having computer readable program code physically embodied therein that also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement) for the reasons given above.
9pre	A computer program product for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME)

Claim	Claim Language	Evidence
	environment, the computer program product comprising:	and any other tools used to create Java, JavaFX, or similar content. For example, the Sun Java and/or JavaFX authoring tools are computer program products for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment. *See the evidence and information cited for the claim elements 1pre and 1a supra which is expressly incorporated herein.* In addition, the Sun applications to view Java and/or JavaFX content are computer usable mediums having computer readable program code physically embodied therein that also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement) for the reasons given above.
9a	a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprising:	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code physically embodied therein, said computer program product further comprising the elements set forth below. *See the evidence and information cited for the claim element 6a supra which is expressly incorporated herein.*

Claim	Claim Language	Evidence
		In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9b	computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats. *See the evidence and information cited for claim element 1b supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
9c	computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation,	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation. *See the evidence and information cited for claim element 1c supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9d	wherein said first	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the

Claim	Claim Language	Evidence
	distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document,	computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document. *See the evidence and information cited for claim element 1d supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9e	wherein said object has type information associated with it utilized by said browser to identify and locate an	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document.

Claim	Claim Language	Evidence
	executable application external to the first distributed hypermedia document,	*See the evidence and information cited for claim element 1e supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9f	and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object. *See the evidence and information cited for claim element 1f supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9g	and enable interactive processing of said	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or

Claim	Claim Language	Evidence
	object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window;	JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code to enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window. *See the evidence and information cited for claim element 1g supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9h	wherein said executable application is a controllable application and further comprising:	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said executable application is a controllable application further comprising the elements set forth below. *See the evidence and information cited for claim element 2pre supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this

Claim	Claim Language	Evidence
		element directly and indirectly (through contributory and/or induced infringement).
9i	computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application. *See the evidence and information cited for claim element 2a supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9j	wherein the communications to interactively control said controllable application continue to be exchanged between the	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the

Claim	Claim Language	Evidence
	controllable application and the browser even after the controllable application program has been launched; and	controllable application program has been launched. *See the evidence and information cited for claim element 3 supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9k	wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation further comprises the elements set forth below. *See the evidence and information cited for claim element 4k supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
	includes:	
9l	computer readable program code for causing said client workstation to issue, from the client workstation, one or more commands to the network server;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to issue, from the client workstation, one or more commands to the network server. *See the evidence and information cited for claim element 4l supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9m	computer readable program code for causing said network server to execute one or more instructions in response to said commands;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said network server to execute one or more instructions in response to said commands.

Claim	Claim Language	Evidence
		See the evidence and information cited for claim element 4m supra which is expressly incorporated herein. In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9n	computer readable program code for causing said network server to send information to said client workstation in response to said executed instructions; and	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said network server to send information to said client workstation in response to said executed instructions. *See the evidence and information cited for claim element 4n supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
9o	computer readable program code for causing said client workstation to	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or

Claim	Claim Language	Evidence
	process said information at the client workstation to interactively control said controllable application.	JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application. *See the evidence and information cited for claim element 4o supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10pre	A computer program product for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME)

Claim	Claim Language	Evidence
	environment, the computer program product comprising:	and any other tools used to create Java, JavaFX, or similar content. For example, the Sun Java and/or JavaFX authoring tools are computer program products for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment, the computer program product futher comprsing the elements set forth below. *See the evidence and information cited for the claim elements 1pre and 1a supra which is expressly incorporated herein.* In addition, the Sun applications to view Java and/or JavaFX content are computer usable mediums having computer readable program code physically embodied therein that also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement) for the reasons given above.
10a	a computer usable medium having computer readable program code physically embodied therein, said computer program product	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code physically embodied therein, said computer program product further comprising the elements set forth below.

Claim	Claim Language	Evidence
	further comprising:	*See the evidence and information cited for the claim element 6a supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10b	computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats. *See the evidence and information cited for claim element 1b supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
	by said text formats;	
10c	computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation,	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation. *See the evidence and information cited for claim element 1c supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
10d	wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document,	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document. *See the evidence and information cited for claim element 1d supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10e	wherein said object has type information associated with it utilized by said browser to identify	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said object has type information associated with it utilized by said browser to

Claim	Claim Language	Evidence
	and locate an executable application external to the first distributed hypermedia document,	identify and locate an executable application external to the first distributed hypermedia document. *See the evidence and information cited for claim element 1e supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10f	and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object. *See the evidence and information cited for claim element 1f supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10g	and enable interactive	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable

Claim	Claim Language	Evidence
	processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window;	medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code to enable an end-user to directly interact with said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window. *See the evidence and information cited for claim element 1g supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10h	wherein said executable application is a controllable application and further comprising:	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said executable application is a controllable application. *See the evidence and information cited for claim element 2pre supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this

Claim	Claim Language	Evidence
		element directly and indirectly (through contributory and/or induced infringement).
10i	computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application. *See the evidence and information cited for claim element 2a supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10j	wherein the communications to interactively control said controllable application continue to be exchanged between the	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the

Claim	Claim Language	Evidence
	controllable application and the browser even after the controllable application program has been launched;	controllable application program has been launched. *See the evidence and information cited for claim element 3 supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10k	wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation further comprises the elements set forth below. *See the evidence and information cited for claim element 4k supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
	includes:	
10l	computer readable program code for causing said client workstation to issue, from the client workstation, one or more commands to the network server;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to issue, from the client workstation, one or more commands to the network server. *See the evidence and information cited for claim element 4l supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10m	computer readable program code for causing said network server to execute one or more instructions in response to said commands;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said network server to execute one or more instructions in response to said commands.

Claim	Claim Language	Evidence
		See the evidence and information cited for claim element 4m supra which is expressly incorporated herein. In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10n	computer readable program code for causing said network server to send information to said client workstation in response to said executed instructions; and	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said network server to send information to said client workstation in response to said executed instructions. *See the evidence and information cited for claim element 4n supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10o	computer readable program code for causing said client workstation to	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or

Claim	Claim Language	Evidence
	process said information at the client workstation to interactively control said controllable application; and	JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application. *See the evidence and information cited for claim element 4o supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
10p	wherein said additional instructions for controlling said controllable application reside on said client workstation.	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code, wherein said additional instructions for controlling said controllable application reside on said client workstation. *See the evidence and information cited for claim element 5p supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
11pre	The method of claim **3**, wherein the additional instructions for controlling said controllable application reside on said network server, wherein said step of interactively controlling said controllable application includes the following sub-steps:	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example. Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) perform the method of claim 3, wherein the additional instructions for controlling said controllable application reside on said network server. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4k supra which is expressly incorporated*

Claim	Claim Language	Evidence
		herein. In addition, as set forth above, the Sun applications that view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
11a	issuing, from the client workstation, one or more commands to the network server;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) issue, from the client workstation, one or more commands to the network server. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4l supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
11b	executing, on the network server, one or more instructions in response to said commands;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) execute, on the network server, one or more instructions in response to said commands. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4m supra which is expressly incorporated*

Claim	Claim Language	Evidence
		herein. In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
11c	sending information from said network server to said client workstation in response to said executed instructions;	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) send information from said network server to said client workstation in response to said executed instructions. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for the claim element 4n supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
11d	and processing said information at the client workstation to interactively control said controllable	Users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or the servers hosting the authoring tools (and/or the combination thereof) process said information at the client workstation to interactively control said controllable application. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses.

Claim	Claim Language	Evidence
	application.	*See the evidence and information cited for the claim element 4o supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
12	The method of claim **11**, wherein said additional instructions for controlling said controllable application reside on said client workstation.	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, users of Sun Java and/or JavaFX authoring tools, the authoring tools themselves and/or

Claim	Claim Language	Evidence
		the servers hosting the authoring tools (and/or the combination thereof) perform the method of claim 11, wherein said additional instructions for controlling said controllable application reside on said client workstation. In addition, Sun provides the infrastructure (e.g. the authoring tools/servers), in addition to instructions to users, and causes them to use Sun Java and/or JavaFX authoring tools in an infringing manner in their default and expected uses. *See the evidence and information cited for claim element 5p supra which is expressly incorporated herein.* In addition, as set forth above, the Sun applications that view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
13pre	The computer program product of claim **8**, wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business

Claim	Claim Language	Evidence
	code for causing said client workstation to interactively control said controllable application on said workstation includes:	• Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, the Sun Java and/or JavaFX authoring tools are computer program products of claim 8, wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program code for causing said client workstation to interactively control said controllable application further comprises the elements set forth below. *See the evidence and information cited for claim element 4k supra which is expressly incorporated herein.* In addition, the Sun applications to view Java and/or JavaFX content are computer usable mediums having computer readable program code physically embodied therein that also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement) for the reasons given above.
13a	computer readable program code for causing said client workstation to issue, from the client workstation, one or more	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to issue, from the client workstation, one or more commands to the network server.

Claim	Claim Language	Evidence
	commands to the network server;	*See the evidence and information cited for claim element 4l supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
13b	computer readable program code for causing said network server to execute one or more instructions in response to said commands;	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said network server to execute one or more instructions in response to said commands. *See the evidence and information cited for claim element 4m supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
13c	computer readable program code for causing said	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or

Claim	Claim Language	Evidence
	network server to send information to said client workstation in response to said executed instructions; and	JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said network server to send information to said client workstation in response to said executed instructions. *See the evidence and information cited for claim element 4n supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).
13d	computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application.	The Sun Java and/or JavaFX authoring tools as well as the Sun servers which host them, and the computers of users of the Sun Java and/or JavaFX authoring tools each comprise a computer usable medium (such as a DVD/CD-ROM, the hard-disk/volatile memory of the user of the Sun Java and/or JavaFX authoring tools, the hard-disk/volatile memory of the server from which the Sun Java and/or JavaFX authoring tools are hosted, etc.). The computer usable medium has computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application. *See the evidence and information cited for claim element 4o supra which is expressly incorporated herein.* In addition, as set forth above, the applications to view Java and/or JavaFX content also infringe this element directly and indirectly (through contributory and/or induced infringement).

Claim	Claim Language	Evidence
14	The computer program product of claim **13**, wherein said additional instructions for controlling said controllable application reside on said client workstation.	Sun indirectly, by induced and/or contributory infringement, infringes all elements of this claim, set forth below, through its Java and JavaFX authoring tools, including but not limited to: • JavaFX SDK • NetBeans IDE 6.5.1 for JavaFX 1.2 • JavaFX Production Suite • Java FX Platform • Java FX Mobile • Java Development Toolkit (JDK) • Java Application Verification Kit (AVK) for the Enterprise • Java Platform, Enterprise Edition (Java EE) • Java Platform, Standard Edition (Java SE) • Java SE for Business • Java Real-Time System • Java Platform, Micro Edition (Java ME) and any other tools used to create Java, JavaFX, or similar content. For example, the Sun Java and/or JavaFX authoring tools are computer program products of claim 13, wherein said additional instructions for controlling said controllable application reside on said client workstation. *See the evidence and information cited for the claim element 5p supra which is expressly incorporated herein.*

Claim	Claim Language	Evidence
		In addition, the Sun applications to view Java and/or JavaFX content are computer usable mediums having computer readable program code physically embodied therein that also infringe all elements of this claim directly and indirectly (through contributory and/or induced infringement) for the reasons given above.