

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
TYLER DIVISION**

**EOLAS TECHNOLOGIES INCORPORATED,**

**Plaintiff,**

**v.**

**AMAZON.COM, INC.,**

**Defendant.**

**Civil Action No. 6:15-cv-01038-RWS**

**LEAD CASE**

**JURY TRIAL DEMANDED**

**EOLAS TECHNOLOGIES INCORPORATED,**

**Plaintiff,**

**v.**

**GOOGLE INC.,**

**Defendant.**

**Civil Action No. 6:15-cv-01039-RWS**

**CONSOLIDATED CASE**

**JURY TRIAL DEMANDED**

**EOLAS TECHNOLOGIES INCORPORATED,**

**Plaintiff,**

**v.**

**WAL-MART STORES, INC., AND WAL-MART  
STORES TEXAS, LLC,**

**Defendants.**

**Civil Action No. 6:15-cv-01040-RWS**

**CONSOLIDATED CASE**

**JURY TRIAL DEMANDED**

**PLAINTIFF'S SECOND AMENDED COMPLAINT FOR PATENT INFRINGEMENT  
AGAINST WAL-MART STORES, INC. AND WAL-MART STORES TEXAS, LLC**

Plaintiff Eolas Technologies Incorporated ("Eolas") files this Second Amended Complaint for Patent Infringement against Defendants Wal-Mart Stores, Inc. ("Wal-Mart

Stores”) and Wal-Mart Stores Texas, LLC (“Wal-Mart Texas”) (collectively, “Walmart” or “Defendants”), and alleges as follows:

## **I. PARTIES**

1. In the early 1990s, the University of California, San Francisco (“the University”) assembled a team of scientists and computer programmers to form the Center for Knowledge Management. The University was (and is) world renowned for biomedical research. The University selected Dr. Michael Doyle as Director of the Center for Knowledge Management due to his expertise in biomedical imaging, information security, and hypermedia design. The University also selected David Martin, an expert in computer system design and publishing on the Internet, and Cheong Ang, a world-class computer programmer with expertise in 3D visualization and remote computing, to join the team.

2. As part of the Center for Knowledge Management’s mission, the University tasked Dr. Doyle and his team with developing ways to make scientific research available to researchers and physicians around the world. Dr. Doyle had long been interested in the Carnegie Collection of Human Embryology, which includes a population of over 650 human embryos on microscope slides collected from the late 1800s to the 1950s from miscarriages and autopsies, and preserved at the National Museum of Health and Medicine in Washington D.C. The Center for Knowledge Management recognized that the Carnegie Collection could be of vital importance in helping researchers and physicians understand early human development and detect and treat birth defects. However, the Carnegie Collection was unavailable to most researchers, because it was sitting in a museum.

3. The Center for Knowledge Management created the “Visible Embryo Project”—in an effort to develop a way to make 3D images of the Carnegie Collection’s embryos available to researchers and physicians all over the world using the then brand new World Wide Web. The

University team wanted researchers and scientists to not only be able to view images of the embryos, but also to be able to interact with the images—to rotate them, view them from different angles in 3D, take measurements of the images, move them like they had the specimens in their labs, and, most importantly, use this information to make medical discoveries and help mothers deliver healthy babies.

4. Working together on a white board, the University team came up with a novel idea: storing the Carnegie Collection's digital images on powerful server computers that researchers and physicians could control from their own computers located anywhere in the world. The University team created a system where the user's personal computer could tap into powerful remote computers, allowing researchers to access and interact with the massive Carnegie Collection of digital images without having to download the entire collection to their personal computers. Today, this powerful idea is widely used to deliver interactive content over the Internet.

5. In the first few months after conceiving of their invention, the University team made about two dozen presentations regarding their breakthrough. They met with organizations like the National Library of Medicine, the National Museum of Health and Medicine, and the High-Performance Computing Conference. Later, the Visible Embryo Project program led to several new research projects, including a contract from the National Institutes of Health funding development of new kinds of applications that would work with powerful computers over high-speed networks. As part of this project, the University team reconstructed over 30 embryos from the Carnegie Collection and made them available on computers at the San Diego Supercomputer Center at the University of California San Diego. As a result of having access to this data, Dr. Charles Paidas, at Johns Hopkins University, was able to compare the reconstructed Carnegie

Collection data to 3D ultrasounds to detect birth defects and plan intrauterine surgeries to correct them.

6. Dr. Doyle founded Eolas (which means “knowledge” in Gaelic) in 1994. Eolas conducts leading-edge research and development to create innovative technologies in the areas of interactive embedded and distributed applications, systems, data analysis, visualization, collaboration, and networking. Over the past two decades, Eolas’ innovations have enabled corporations around the world to enhance their products and improve their customers’ website experiences by enabling World Wide Web servers, in conjunction with users’ browsers, to act as platforms for fully interactive embedded applications. This advanced technology provides rich interactive online experiences for Web users worldwide. The University team filed a patent application for their invention in October 1994, which issued as a patent in 1998, and has been cited by over 600 other patents.

7. Plaintiff Eolas is a corporation organized and existing under the laws of Texas, with its principal place of business at 313 East Charnwood Street, Tyler, Texas 75701.

8. Upon information and belief, Wal-Mart Stores is a corporation organized and existing under the laws of the State of Delaware, with its principal place of business at 702 S.W. 8th Street, Bentonville, Arkansas 72716. Wal-Mart Stores may be served with process by serving its registered agent, CT Corp. System, 1999 Bryan Street, Suite 900, Dallas, Texas 75201.

9. Upon information and belief, Wal-Mart Texas (with Wal-Mart Stores, “Wal-Mart”) is a limited liability corporation organized and existing under the laws of the State of Delaware, with its principal place of business at 702 S.W. 8th Street, Bentonville, Arkansas 72716. Wal-Mart Stores may be served with process by serving its registered agent, CT Corp. System, 1999 Bryan Street, Suite 900, Dallas, Texas 75201.

## II. JURISDICTION AND VENUE

10. Plaintiff repeats and re-alleges the allegations contained in Paragraphs 1–9 as though fully set forth in their entirety.

11. This action arises under the patent laws of the United States, Title 35, United States Code § 1, *et seq.* This Court has exclusive subject matter jurisdiction over this case for patent infringement under 28 U.S.C. §§ 1331 and 1338(a).

12. Personal jurisdiction exists generally over each of the Defendants because each has sufficient minimum contacts with the forum as a result of business conducted within the State of Texas and within the Eastern District of Texas. Personal jurisdiction also exists specifically over each of the Defendants because each, directly or through subsidiaries or intermediaries, makes, uses, offers for sale, sells, imports, advertises, makes available and/or markets products and services within the State of Texas, and more particularly, within the Eastern District of Texas, that infringe the patent-in-suit, as described more particularly below.

13. On information and belief, Defendants directly or through subsidiaries or intermediaries, make, use, offer for sale, sell, import, advertise, make available and/or market products and services within the Eastern District of Texas that infringe the patent-in-suit through its [www.walmart.com](http://www.walmart.com) website and/or other Defendant owned/controlled websites and/or facilities. On further information and belief, Walmart, through its operations and facilities and/or employees in Texas and/or this District, provides its customers with products purchased using the infringing functionality.

14. On information and belief, Defendant induces its users, customers, and other third parties, including in Texas and this District, to infringe the patent-in-suit. On information and belief, Defendant knew about the patent-in-suit at least by the time of the Original Complaint in this case, but as early as the filing of the application leading to the patent-in-suit in light of

Eolas' prior lawsuit against Defendant regarding one or more related patents. On information and belief, Defendant provides instructions, encouragement, and guidance to its users, customers, and other third parties in order for those users, customers, and other third parties to infringe the patent-in-suit. On information and belief, these instructions, encouragement, and guidance come from online resources provided by Defendant, and Defendant's personnel (including those located in Texas and this District) offering such instructions, encouragement, and guidance online, over the phone, and/or in person. Infringement by Defendant's users, customers, and other third parties is accomplished through the typical and ordinary usage of the infringing functionality.

15. Venue is proper in the Eastern District of Texas under 28 U.S.C. §§ 1391 and 1400(b). Upon information and belief, each Defendant has individually transacted business in this district and/or committed acts of patent infringement in this district.

### **III. PATENT INFRINGEMENT**

16. Plaintiffs repeat and re-allege the allegations contained in Paragraphs 1–15 as though fully set forth in their entirety.

17. United States Patent No. 9,195,507 (“the ’507 Patent” or the “patent-in-suit”) entitled, “Distributed Hypermedia Method and System for Automatically Invoking External Application Providing Interaction and Display of Embedded Objects Within A Hypermedia Document,” was duly and legally issued by the United States Patent and Trademark Office on November 24, 2015 after full and fair examination and is owned by transfer by Eolas. The named inventors of the ’507 Patent are Michael Doyle, David Martin, and Cheong Ang. Eolas is the assignee of all rights, title, and interest in the ’507 Patent, including the right to recover damages for past, present, and future infringement. A copy of the ’507 Patent is attached as Exhibit 1 to this Complaint.

18. On information and belief, Wal-Mart directly infringes the '507 Patent in this District or otherwise within the United States by making, using, selling, offering to sell, and/or importing in or into the United States, without authority: (i) web pages and content to be interactively presented in browsers, including, without limitation, the web pages and content accessible via [www.walmart.com](http://www.walmart.com) and maintained on servers located within and/or accessible from the United States under the control of Wal-Mart; (ii) software, including, without limitation, software that allows content to be interactively presented in and/or served to browsers; and/or (iii) computer equipment, including, without limitation, computer equipment that stores, serves, and/or runs any of the foregoing. As an example, Wal-Mart disseminates interactive content, such as search suggestions and search results, to Internet users via its ecommerce website, [www.walmart.com](http://www.walmart.com), that infringes, for example, claims 19-45 of the '507 Patent. On information and belief, Wal-Mart's ecommerce website provides interactive search suggestions and search results via communications sent to and received from a Wal-Mart server-side application located on two or more servers. On further information and belief, Walmart, through its facilities and/or employees in Texas and/or this District, provides its customers with products purchased using the infringing functionality.

19. On information and belief, Walmart indirectly infringes the '507 Patent, as provided in 35 U.S.C. § 271(b), by inducing infringement by others, such as customers, end-users and other third parties, in this District and elsewhere in the United States. For example, customers, end-users and other third parties of Walmart's infringing functionality directly infringe by using the inventions claimed in the '507 Patent. Walmart has been involved in prior litigations with Eolas regarding related patents, and upon information and belief, Walmart had knowledge of the '507 Patent, or the application leading thereto, based on these litigations and

any additional investigations of Eolas' patent portfolio that Walmart may have performed. Walmart also received notice of the '507 Patent as of the date this lawsuit was filed and/or the date the Original Complaint was served upon Walmart.

20. Walmart's affirmative acts include of: manufacturing, selling, distributing, and/or otherwise making available the infringing functionality; causing others to use the infringing functionality; and/or providing instructions, documentation, and/or other information regarding using the infringing functionality in the way Walmart intends, including online, over the phone, and/or in person guidance, and product manuals, online documentation, and other information about the infringing functionality, induce Walmart's customers, end-users and other third parties to use the infringing functionality in the way that Walmart intends, in order to directly infringe the '507 Patent. Walmart has performed and continues to perform these affirmative acts with knowledge of the '507 Patent and with knowledge or willful blindness that the induced acts directly infringe the '507 Patent.

#### **IV. PRAYER FOR RELIEF**

Plaintiff prays for the following relief:

- A. A judgment that each Defendant has directly infringed one or more claims of the '507 Patent;
- B. An award of damages in an amount adequate to compensate Eolas for each Defendant's infringement of the '507 Patent, but in no event less than a reasonable royalty under 35 U.S.C. § 284;
- C. An accounting for damages;
- D. An award of all costs of this action;
- E. Pre-judgment and post-judgment interest to the maximum rate allowed by law;



F. A declaration that this is an exceptional case pursuant to 35 U.S.C. § 285 and an award of Plaintiff's attorneys' fees and interest; and

G. Such other and further relief as the Court deems just and equitable.

**V. DEMAND FOR JURY TRIAL**

Plaintiff hereby demands that all issues be determined by a jury.

Dated: February 24, 2016.

**McKool Smith, P.C.**

/s/ Kevin L. Burgess

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**ATTORNEYS FOR PLAINTIFF  
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INCORPORATED**

**CERTIFICATE OF SERVICE**

I hereby certify that a true and correct copy of the above and foregoing document has been served on all counsel of record via the Court's ECF system on February 24, 2016.

*/s/ James Quigley*

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James Quigley