

UNITED STATES PATENT AND TRADEMARK OFFICE  
BEFORE THE PATENT TRIAL AND APPEAL BOARD

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DIRECTV, LLC

Petitioner

v.

QURIO HOLDINGS, INC.

Patent Owner

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CASE: To Be Assigned

Patent No. 7,787,904 B2

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**DECLARATION OF DR. MARK DUNLOP, PH.D.**  
**IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW**  
**OF U.S. PATENT NO. 7,787,904 B2**

DECLARATION OF MARK DUNLOP, PH.D.  
IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW  
OF U.S. PATENT NO. 7,787,904 B2

I, Mark Dunlop, Ph.D., declare:

1. I have been asked by Petitioner to provide this Declaration to be used in the Petition for *Inter Partes* Review of U.S. Patent No. 7,787,904 B2 (“the Patent”).

2. The University of Strathclyde is being compensated at the rate of 300 U.S. Dollars per hour for my time to prepare, review, and sign this Declaration. The compensation is not contingent upon the outcome of any *inter partes* review, district court litigation, or any other proceeding related to the Patent.

**I. BACKGROUND AND EXPERIENCE**

3. In 1991, I earned a Ph.D. in Computing Science from the University of Glasgow, Scotland, where I researched in the area of multimedia information retrieval. Between approximately 1991 and 1993, I was a lecturer in Computing Science at the University of Glasgow. In 1994, I was a lecturer in Computing and Information Systems at the University of Paisley, Scotland. From 1994 to 1999, I was again a lecturer in Computing Science at the University of Glasgow.

4. From July 1999 to July 2000, I was a senior researcher at the Risø National Laboratory in Roskilde, Denmark, where I researched in the area of human-machine interaction.

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5. Since 2000, I have been a senior lecturer at the University of Strathclyde in Glasgow, Scotland. My teaching is mainly related to human computer interaction and internet programming technologies.

6. My public LinkedIn profile summarizing my education and experience is attached to this Declaration as Attachment A.

## **II. MOBILEHCI CONFERENCES AND WORKSHOPS**

7. Since 1998, I have been an active participant in The International Conference Series on Human Computer Interaction with Mobile Devices and Services (“MobileHCI”). MobileHCI conferences are open to members of the public to attend, participate, and share ideas related to interaction with mobile devices. The modern MobileHCI conferences began as small workshops attached to the Interact series of conferences on human-computer interaction.

8. In 1998, along with colleagues named Chris Johnson and Stephen Brewster, I organized the first Workshop on Human Computer Interaction with Mobile Devices (the “1998 Workshop”), which started the MobileHCI conference series. We arranged the 1998 Workshop because mobile devices were growing in popularity and functionality and because they offered exciting new ways to interact with technology and exciting opportunities for human computer interaction (HCI). The 1998 Workshop was largely academic, but the 1998 Workshop and subsequent

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workshops and MobileHCI conferences also involved industry representatives, such as Nokia, Ericsson, Siemens, Philips, Microsoft, LG, Google and Yahoo.

9. Chris Johnson, Stephen Brewster and I contacted members of the human computer interaction and mobile device industry to request research contributions for the 1998 Workshop, which took place in Glasgow in May 1998.

10. The following year, in 1999, Stephen Brewster and I contacted participants from the 1998 Workshop and others in the general academic and industrial research committees to seek submissions for another workshop, which took place in August 1999 in Edinburgh, Scotland (“the 1999 Workshop”). The 1999 Workshop was a one-day workshop as part of the Interact ‘99 Conference.

11. In the weeks prior to the 1999 Workshop, we created a publicly accessible webpage (“the 1999 Webpage”), hosted by the University of Glasgow, to publicise the workshop and call for research contributions.

12. We encouraged prospective attendees to the 1999 Workshop to access the 1999 Webpage prior to the 1999 Workshop to download copies of the research contributions to be discussed at the 1999 Workshop. The 1999 Webpage was the primary way attendees accessed the research contributions prior to the 1999 Workshop.

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13. The 1999 Webpage also gave members of the general public access to papers and posters to be discussed at the 1999 Workshop.

14. The 1999 Webpage still exists today, at <http://www.dcs.gla.ac.uk/mobile99/>.

15. Attachment B to this Declaration is a true and correct representation of the content of the 1999 Webpage as it existed on September 1, 1999, now viewed from the Internet Archive located at [www.archive.org](http://www.archive.org) at <http://web.archive.org/web/19990901173557/http://www.dcs.gla.ac.uk/mobile99/>.

16. The 1999 Webpage had hyperlinks to Postscript files of the papers and posters to be presented at the 1999 Workshop. Postscript was a common document format known to the public and members of industry. In 1999, visitors to the 1999 Webpage clicked on hyperlinks to the papers and posters to retrieve the Postscript files and view the papers and posters.

17. At some point after 1999, we updated the hyperlinks to the posters and papers on the 1999 Webpage to provide .pdf files of each document, rather than the now less used Postscript versions. The site retained the original 1999 PostScript submissions within two compressed (zip) archives.

18. Attendance at Interact '99 and the 1999 Workshop was open to the public, subject to registration through the Interact '99 conference, which itself was

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