

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT TRIAL AND APPEAL BOARD**

Inter Partes Review No.: not yet assigned

Inter Partes Review of: U.S. Patent No. 5,832,494

Petitioner: Facebook, Inc.; LinkedIn Corp.; and Twitter, Inc.

Inventors: Daniel Egger; Shawn Cannon; Ronald D. Sauers

Patent Title: METHOD AND APPARATUS FOR INDEXING,
SEARCHING AND DISPLAYING DATA

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Patent Assignee: Software Rights Archive, LLC

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DECLARATION OF EDWARD A. FOX, PH.D.

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I, Edward A. Fox, Ph.D., hereby declare as follows:

I. INTRODUCTION AND QUALIFICATIONS

1. My name is Edward Alan Fox. I live with my wife in Blacksburg, Virginia. We have four sons and four grandchildren.
2. I have worked with computers since the fall of 1965 when, at age 15, I took Saturday courses at Columbia University in New York City. In 1972, I earned my B.S. degree in Electrical Engineering, Computer Science Option, at the Massachusetts Institute of Technology (MIT).
3. After teaching data processing 1971-1972 at Florence Darlington Technical College in Florence, SC, where I guided students on how to use computers to prepare business reports and a variety of electronic services, I was Data Processing Manager at Vulcraft, a division of Nucor Corporation. There I supported all parts of the company, including implementing systems to prepare product proposals for customers based on answers to their questions, along with engineering designs, inventory, payroll, and manufacturing instructions. After moving in 1978 to Ithaca, NY for graduate work at Cornell University, I earned M.S. (1981) and Ph.D. (1983) degrees in Computer Science. My specialty area was information retrieval (*i.e.*, the field underlying modern search engines), including how to prepare customized answers to user queries.
4. I worked 1982-1983 as the Manager of Information Systems at the

International Institute of Tropical Agriculture, Ibadan, Nigeria, where I ran the computer operations in support of the mission to advance tropical agriculture.

From August 1983 to the present I have worked in the Department of Computer Science at Virginia Tech, Blacksburg, VA. In 1988 I was tenured, and in 1995 I became a full Professor. I also serve as Faculty Advisor to Information Technology, reporting to Virginia Tech's Vice President for Information Technology, helping broadly with campus use of computers at Virginia's largest public university.

5. Since 1983 I have taught yearly graduate courses on Information Retrieval, or sometimes advanced graduate courses on Digital Libraries (which has a strong "IR" flavor). Since the early 1990s I have taught a course called Computer Science 4624: Multimedia, Hypertext, and Information Access. This is an undergraduate capstone course for seniors. It was one of the first courses offered in the United States at this level that covers these important technologies.

6. Over the years I have taught thousands of students, and have graded many thousands of reports and assignments. I served as adviser for more than 38 M.S. or Ph.D. students whose theses are now online. In addition to courses at Virginia Tech, I have taught over 78 tutorials in more than 28 countries. My research, supported by 114 grants/contracts, led to publications and presentations including: 16 books/proceedings, 107 journal/magazine articles, 49 book chapters,

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