

UNITED STATES PATENT AND TRADEMARK OFFICE

---

BEFORE THE PATENT TRIAL AND APPEAL BOARD

---

ORACLE CORPORATION

Petitioner

v.

Patent of CLOUDING IP, LLC

Patent Owner

---

Case IPR2013-00073

Patent 6,738,799

---

**DECLARATION OF WESLEY W. CHU, PH.D.**

I, **WESLEY W. CHU**, Ph.D. declare:

1. I am currently a Distinguished Professor (emeritus) at the University of California, Los Angeles (UCLA) within the Computer Science Department and have been since 2009. I have worked at the Computer Science Department of UCLA since 1969 in the following positions: Professor (since 1975); Department Chair (1988-91),

Distinguished Professor (since 1998), and Emeritus Distinguished Professor (since 2009).

2. For more than 47 years, I have worked in the field of computer science, with a particular focus on distributed processing, computer networks, real-time distributed processing systems and distributed databases for 31 years (1969-2000).

3. My pioneering work in file allocation and directory design for distributed databases aided the design and development of domain name servers for the web and current cloud computing systems. I was elected as an IEEE Fellow for these accomplishments.

4. I am the sole author of a seminal publication in the distributed data base field entitled Optimal File Allocation in a Multiple Computer System.<sup>1</sup> Additionally, I am an author or co-author of more than 150 publications in the computer science field.

---

<sup>1</sup>W. W. Chu, Optimal File Allocation in a Multiple Computer System, IEEE Transactions on Computers, Vol. c-18, No. 10, October 1969, pp. 885-889.

I have been an editor of three textbooks on information technology and am a co-author of a reference book about data mining. Below is a list of my publications that are most relevant topics at issue in this Inter Partes Review:

a. Articles:

- i. Chu, W. W., M. T. Lan and J. Hellerstein, "Estimation of Intermodule Communication (IMC) and Its Application in Distributed Processing Systems", IEEE Transactions on Computers, August 1984, pp.691-699.
- ii. Chu, W. W. and K. K. Leung, "Task Response Time Model and Its Applications for Real-Time Distributed Processing Systems", Proceedings of the Real Time Systems Symposium, December 1984, pp. 225-236.
- iii. Chu, W. W. and J. Hellerstein, "The Exclusive-Writer Approach to Updating Replicated Files in

Distributed Processing Systems", IEEE Transactions on Computers, Vol. C-34, No. 6, pp. 489-500, June 1985.

- iv. Jung Min An and Wesley W. Chu, "A Resilient Commit Protocol for Real Time Systems" Proceedings of the Real-time Systems Symposium, December 1985. pp. 25-29
- v. Wesley W. Chu and Jung M. An " Fault tolerant Locking for Tightly Coupled Systems, Proceedings of the 5th Symposium on Reliability in Distributed Systems, Jan 13-15, 1986, Los Angeles, CA
- vi. Chu, W. W. and M. T. Lan, "Task Allocation and Precedence Relations for Distributed Real-Time Systems", IEEE Transactions on Computers, June 1987, pp. 667-679.

- vii. Chu, W. W. and K. K. Leung, "Module Replication and Assignment for Real-Time Distributed Processing Systems", Special Issue on Distributed Data Bases, IEEE Proceedings, May 1987, pp. 547-562.
- viii. Chu, W. W. and C. M. Sit, "A Batch Service Scheduling Algorithm with Time-Out for Real-Time Distributed Processing Systems", 7th International Conference on Distributed Computing Systems, September 1987.
- ix. Chu, W. W., C. M. Sit and K. K. Leung, "Task Response Time for Real-Time Distributed Systems with Resource Contentions", IEEE Transactions on Software Engineering, October 1991.
- x. Bagrodia, R., W. W. Chu, L. Kleinrock, and G. Popek, "Vision, Issues, and Architecture for

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.