

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MICROSOFT CORPORATION and HP INC.
Petitioners,

v.

SYNKLOUD TECHNOLOGIES, LLC,
Patent Owner.

Patent No. 7,870,225
Issued: January 11, 2011
Filed: February 5, 2010

Inventor: Hang-gyoo Kim

Title: DISK SYSTEM ADAPTED TO BE DIRECTLY ATTACHED TO
NETWORK

Inter Partes Review Nos. IPR2021-00174 and IPR2021-00175

**DECLARATION OF HENRY HOUH
REGARDING U.S. PATENT NO. 7,870,225**

Declaration of Henry Houh Regarding U.S. Patent No. 7,870,225

I, Henry Houh, do hereby declare and state, that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, under Section 1001 of Title 18 of the United States Code.

Executed on: November 11, 2020


Henry Houh

TABLE OF CONTENTS

I. INTRODUCTION1

 A. Engagement1

 B. Background and Qualifications1

 C. Compensation and Prior Testimony4

 D. Information Considered4

II. LEGAL STANDARDS FOR PATENTABILITY5

 A. Anticipation7

 B. Obviousness.....8

III. THE 225 PATENT14

 A. Effective Filing Date14

 B. Level of Ordinary Skill15

 C. Overview of 225 Patent15

 D. Prosecution History of 225 Patent19

 E. Challenged Claims of the 225 Patent24

 F. Claim Construction27

 1. “network-attached device (NAD)”28

 2. “general purpose network traffic”28

 3. “data link frames”29

Declaration of Henry Houh Regarding U.S. Patent No. 7,870,225

4.	“virtual host bus adapter”	30
5.	“device accessing thread,” “device searching thread,” and “network connection setting thread”	31
6.	“[controlling the NAD] in a way indistinguishable from the way as a physical host bus adapter device controls device”	33
7.	“formatted as local disks”	34
8.	“a device driver, running at the host, for creating a virtual host bus adapter in software controlling the NAD through the network”	36
IV.	OVERVIEW OF THE PRINCIPAL PRIOR ART	37
A.	Jewett (EX1005)	37
1.	Public Availability	37
2.	Overview of Jewett	43
V.	COMPARISON OF THE 225 PATENT TO THE PRIOR ART	46
A.	The Challenged Claims Are Unpatentable	46
1.	Claim 1	46
a.	Preamble	46
(i)	NAD access system	46
(ii)	Host	47

Declaration of Henry Houh Regarding U.S. Patent No. 7,870,225

- (iii) Controls an External Device53
- b. Network Interface Card.....55
- c. Network-Attached Device.....58
 - (i) Network-Attached Device58
 - (ii) Coupled to the Network.....60
 - (iii) According to the Certain Network Protocol.....61
- d. Device Driver62
 - (i) Device Driver63
 - (ii) Recognize the NAD as a Local Device65
- e. Virtual Host Bus Adapter.....76
 - 2. Claim 279
 - 3. Claim 379
 - 4. Claim 480
 - 5. Claim 581
 - 6. Claim 682
 - 7. Claim 792
 - 8. Claim 893
 - 9. Claim 9101
 - 10. Claim 10103

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.