



**Apple Inc., (Petitioner)**  
**v.**  
**Realtime Data LLC (Patent Owner)**

**Demonstratives**  
**Trial Nos. IPR2016-01737, -01738, and -01739**  
**U.S. Patent No. 8,880,862**

***Before Hon. G. W. Braden, Jason J. Chung, and Debra Steph***  
***Administrative Patent Judges***

## Table of Contents

### **The '862 Patent and the Instituted Challenges** \_\_\_\_\_

Overview \_\_\_\_\_

Grounds Instituted in Inter Partes Review \_\_\_\_\_

### **IPR2016-01737, -01738, & -01739: Issues Relating to Challe**

1.0: The Applied Prior Art is Properly Combined \_\_\_\_\_

1.1: “Boot Data List” Construction \_\_\_\_\_

1.2: The Art Discloses Boot Data Lists \_\_\_\_\_

1.3: The Art Discloses Updating Boot Data Lists \_\_\_\_\_

1.4: The Art Renders Obvious Updating in Response to Utilizing \_\_\_\_\_

1.5: “Non-Accessed Boot Data” Construction \_\_\_\_\_

1.6: The Art Discloses Disassociating Non-Accessed Boot Data \_\_\_\_\_

1.7: The Art Renders Obvious Further Partial Booting \_\_\_\_\_

## Table of Contents

### **IPR2016-01737 & -01738: Amendments** \_\_\_\_\_

Amendment Overview \_\_\_\_\_

Prior Art Applied in Oppositions \_\_\_\_\_

### **IPR2016-01737 & -01738: Issues Relating to Amendments** \_\_\_\_\_

2.0: “Preloading” Construction \_\_\_\_\_

2.1: Settsu Performs the Claimed Preloading \_\_\_\_\_

2.2: Zwiegincew’s Preloading Techniques are Applicable in Settsu \_\_\_\_\_

2.3: The Sukegawa-Dye-Esfahani Combination Performs Preloading \_\_\_\_\_

2.4: The Sukegawa-Dye-Kroeker Combination Performs Preloading \_\_\_\_\_

2.5: Cost Would have Motivated the Sukegawa Combinations \_\_\_\_\_

2.6: Speed Would have Motivated the Sukegawa Combinations \_\_\_\_\_

# The '862 Patent and the Instituted Challen

# Overview



(12) **United States Patent**  
**Fallon et al.**

(10) **Patent No.:** US 8,880,862 B2  
(45) **Date of Patent:** \*Nov. 4, 2014

(54) **SYSTEMS AND METHODS FOR ACCELERATED LOADING OF OPERATING SYSTEMS AND APPLICATION PROGRAMS**

(75) Inventors: **James J. Fallon**, Armonk, NY (US); **John Buck**, Occochee, NY (US); **Paul F. Pickel**, Bethpage, NY (US); **Stephen J. McErlain**, New York, NY (US)

(73) Assignee: **Realtime Data, LLC**, Armonk, NY (US)  
(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/118,122**  
(22) Filed: **May 27, 2011**

(65) **Prior Publication Data**

US 2011/0231642 A1 Sep. 22, 2011

**Related U.S. Application Data**

(63) Continuation of application No. 11/551,211, filed on Oct. 19, 2006, now Pat. No. 8,112,619, which is a continuation of application No. 09/776,267, filed on Feb. 2, 2001, now Pat. No. 7,181,608.

(60) Provisional application No. 60/180,114, filed on Feb. 3, 2000.

(51) Int. Cl.  
*G06F 15/177* (2006.01)  
*G06F 9/24* (2006.01)  
*G06F 12/00* (2006.01)  
*G06F 3/06* (2006.01)  
*G06F 9/44* (2006.01)  
*G06F 9/445* (2006.01)  
*H03M 7/30* (2006.01)  
*G06F 1/24* (2006.01)

(52) U.S. Cl.  
CPC ..... *G06F 3/0613* (2013.01); *G06F 3/0638* (2013.01); *G06F 3/0658* (2013.01); *G06F 3/0676* (2013.01); *G06F 9/4401* (2013.01); *G06F 9/4406* (2013.01); *G06F 9/445* (2013.01); *H03M 7/30* (2013.01); *G06F 1/24* (2013.01)

USPC ..... **713/2**; 713/1; 711/13  
(58) **Field of Classification Search**  
USPC ..... 713/2  
See application file for complete search history.

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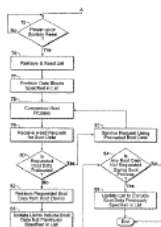
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*Primary Examiner* — Suresh Suryawanshi  
(74) *Attorney, Agent, or Firm* — Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57) **ABSTRACT**

Systems and methods for providing accelerated loading of operating system and application programs upon system boot or application launch are disclosed. In one aspect, a method for providing accelerated loading of an operating system comprises the steps of: maintaining a list of boot data used for booting a computer system; preloading the boot data upon initialization of the computer system; and servicing requests for boot data from the computer system using the preloaded boot data. In another aspect, a method for providing accelerated launching of an application program comprises the steps of: maintaining a list of application data associated with an application program; preloading the application data upon launching the application program; and servicing requests for application data from a computer system using the preloaded application data.

117 Claims, 13 Drawing Sheets



These three related proceedings involve the patent with 117 original claims.

**IPR2016-01737** challenges claims 1-23-34, 47-58, 83-96, 99-100, 105-116 as obvious over combinations featuring **Sukegawa** as the primary reference.

**IPR2016-01738** challenges claims 80-82, 101-104, 114-115, and 117 as obvious over combinations featuring **Sukegawa** as the primary reference.

**IPR2016-01739** challenges claims 50-58, 98, and 112 as obvious over combinations featuring **Settsu** as the primary reference.

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