

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Intel Corporation
Petitioner

v.

QUALCOMM INCORPORATED
Patent Owner

Trial No. IPR2018-01334¹

U.S. Patent No. 8,838,949

PETITIONER'S DEMONSTRATIVE EXHIBITS ON REMAND

¹ IPR2018-01335 and IPR2018-01336 have been consolidated with the instant proceeding.

**United States Patent and Trademark Office
Before the Patent Trial and Appeal Board**

**Intel Corporation, Petitioner,
v.
Qualcomm Incorporated, Patent Owner**

Case No: IPR2018-01334

(Consolidated with IPR2018-01335, -01336)

Petitioner's Demonstrative Exhibits on Remand

Inter Partes Review of U.S. Patent No. 8,838,949 on Remand

August 4, 2022

DEMONSTRATIVE EXHIBIT – NOT EVIDENCE

Overview

Overview of the '949 Patent

Overview of the Prior Art

Disputed Issues

Overview

Overview of the '949 Patent

Overview of the Prior Art


Disputed Issues

9 Patent

(10) **Patent No.:** **US 8,838,949 B2**
 (45) **Date of Patent:** **Sep. 16, 2014**

(54) **DIRECT SCATTER LOADING OF EXECUTABLE SOFTWARE IMAGE FROM A PRIMARY PROCESSOR TO ONE OR MORE SECONDARY PROCESSOR IN A MULTI-PROCESSOR SYSTEM**

Accordingly, no extra memory copy operations occur in the secondary processor in the above aspect. Thus, conventional techniques employing a temporary buffer for the entire image, and the packet header handling, etc., are bypassed in favor of a more efficient direct loading process. Thus, the exemplary load process of FIG. 3 does not require the intermediate buffer operations traditionally required for loading a software image from a primary processor to a secondary processor. Instead of scatter loading from a temporary buffer holding the entire image, the exemplary load process of FIG. 3 allows for direct scatter load the image segments to their respective target destinations directly from the hardware to the system memory. Once the image header is processed, the executable image is directly scatter loaded into target memory, bypassing farther CPU involvement.



US008838949B2

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

(10) **Patent No.:** **US 8,838,949 B2**
(45) **Date of Patent:** **Sep. 16, 2014**

(54) **DIRECT SCATTER LOADING OF EXECUTABLE SOFTWARE IMAGE FROM A PRIMARY PROCESSOR TO ONE OR MORE SECONDARY PROCESSOR IN A MULTI-PROCESSOR SYSTEM**

(58) **Field of Classification Search**
CPC G06F 9/4405; G06F 9/445; G06F 15/177
USPC 713/1, 2, 100; 712/E9.003, 30
See application file for complete search history.

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(73) **Assignee:** **QUALCOMM Incorporated**, San Diego, CA (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 362 days.

(21) **Appl. No.:** **13,052,516**

(22) **Filed:** **Mar. 21, 2011**

(65) **Prior Publication Data**
US 2012/0072710 A1 Mar. 22, 2012

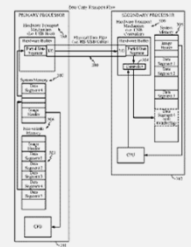
Related U.S. Application Data

(60) Provisional application No. 61/324,035, filed on Apr. 14, 2010, provisional application No. 61/316,369, filed on Mar. 22, 2010, provisional application No. 61/324,122, filed on Apr. 14, 2010, provisional application No. 61/325,519, filed on Apr. 19, 2010.

(51) **Int. Cl.**
G06F 15/177 (2006.01)
G06F 9/445 (2006.01)
G06F 9/44 (2006.01)

(52) **U.S. Cl.**
CPC *G06F 15/177* (2013.01); *G06F 9/445* (2013.01); *G06F 9/4405* (2013.01)
USPC 713/2; 713/1; 713/100; 712/E9.003; 712/30

23 Claims, 5 Drawing Sheets



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