

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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SHARP CORPORATION, SHARP ELECTRONICS CORPORATION, and  
SHARP ELECTRONICS MANUFACTURING COMPANY OF  
AMERICA,  
Petitioners

v.

SURPASS TECH INNOVATION LLC  
Patent Owner

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Case IRP2015-00021  
Patent 7,202,843

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**PATENT OWNER SURPASS TECH INNOVATION LLC'S  
DEMONSTRATIVE EXHIBITS**



SHARP CORPORATION et al.

v.

SURPASS TECH INNOVATION LLC

*Inter Partes* Review of U.S. Patent 7,202,843 B2  
Case IPR2015-00021

Oral Hearing Date: December 1, 2015

*Before Hon. Sally C. Medley, Bryan F. Moore and Beth Z. Shaw  
Administrative Patent Judges*

# Scope of *Inter Partes* Review

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Patent 7,202,843 B2

showing that claim 1 of the '843 patent is unpatentable. At this stage of the proceeding, the Board has not made a final determination with respect to the patentability of the challenged claims.

## IV. ORDER

In consideration of the foregoing, it is

**ORDERED that an *inter partes* review is instituted as to claims 4, 8, and 9 of the '843 patent on the anticipation ground based on Ham.**

FURTHER ORDERED that pursuant to 35 U.S.C. § 314(a), *inter partes* review of the '843 patent is instituted with trial commencing on the entry date of this Order, and pursuant to 35 U.S.C. § 314(c) and 37 C.F.R. § 42.4, notice is given of the institution of the trial: and

FURTHER  
identified in

# Ground 4

( 2 )

## Petition for *Inter Partes* Review (Paper No. 1)

### EXHIBIT LIST

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>
1001	U.S. Patent No. 7,202,843 to Shen et al. ("843 Patent")
1002	U.S. Patent Application Publication No. 2002/0044115 ("Jinda")
1003	Japanese Laid Open Application Publication JPH0662355A ("Miyai") and Certified English Translation Thereof
1004	U.S. Patent Application Publication No. 2001/0038369 ("Adachi")
1005	U.S. Patent Application Publication No. 2004/0196229 ("Ham")
1006	Prosecution History of U.S. Appl. No. 10/707,741
1007	Select Documents from the Prosecution History of European Patent Application No. 03029643.8
1008	Select Documents from the Prosecution History of Japanese Laid-Open Patent Publication No. 4199655 and Certified English Translation Thereof

# United States Patent No. 7,202, 843 B2



US007202843B2

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

(10) **Patent No.:** **US 7,202,843 B2**  
(45) **Date of Patent:** **Apr. 10, 2007**

(54) **DRIVING CIRCUIT OF A LIQUID CRYSTAL DISPLAY PANEL AND RELATED DRIVING METHOD**

(75) Inventors: **Yung-Hung Shen**, Hsin-Chu (TW);  
**Shih-Chung Wang**, Kao-Hsiung (TW);  
**Yuh-Ren Shen**, Tai-Nan (TW);  
**Cheng-Jung Chen**, Miao-Li Hsien (TW)

2002/0044115 A1 4/2002 Jinda et al.  
2003/0058264 A1 3/2003 Takako et al.  
2004/0119730 A1\* 6/2004 Ham et al. .... 345/692  
2004/0196229 A1\* 10/2004 Ham ..... 345/87  
2004/0246224 A1\* 12/2004 Tsai et al. .... 345/100  
2005/0073630 A1\* 4/2005 Chen et al. .... 349/87

**FOREIGN PATENT DOCUMENTS**

(73) Assignee: **Vastview Technology Inc.**, Hsin-Chu (TW)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 602 days.

EP 0539185 A1 4/1993  
EP 0660297 A2 6/1995  
EP 0660297 A3 6/1995  
EP 1122711 A2 8/2001  
EP 1122711 A3 8/2001

(21) Appl. No.: **10/707,741**

(22) Filed: **Jan. 8, 2004**

(65) **Prior Publication Data**

US 2005/0104824 A1 May 19, 2005

(30) **Foreign Application Priority Data**

Nov. 17, 2003 (TW) ..... 92132122 A

(51) **Int. Cl.**  
*G09G 3/36* (2006.01)

(52) **U.S. Cl.** ..... 345/87; 345/89

(58) **Field of Classification Search** ..... 345/87,  
345/88, 89, 90, 91, 93, 98, 99, 100, 204,  
345/589, 596, 600-605

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2001/0038372 A1\* 11/2001 Lee ..... 345/89

**OTHER PUBLICATIONS**

Baek-Woon Lee, et al.; Reducing Gray-Level Response to One Frame: Dynamic Capacitance Compensation; Samsung Electronics Corp.; ISSN00010966X, 2001.

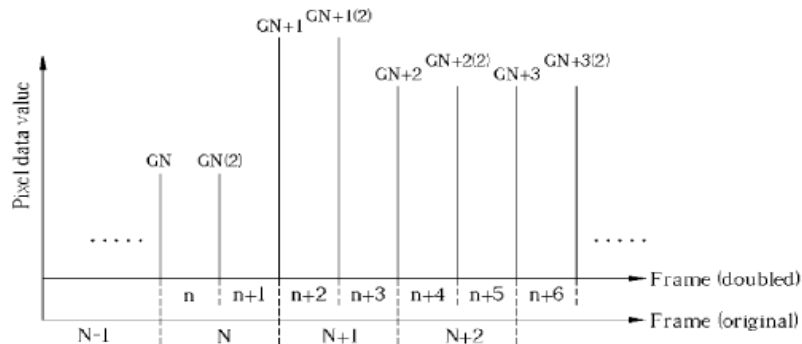
\* cited by examiner

*Primary Examiner*—Nitin Patel  
(74) *Attorney, Agent, or Firm*—Winston Hsu

(57) **ABSTRACT**

A method for driving a liquid crystal display (LCD) panel includes receiving continuously a plurality of frame data, generating a plurality of data impulses for each pixel every frame period according to the frame data, and applying the data impulses to a liquid crystal device of a pixel within a frame period via the data line connected to the pixel in order to control a transmission rate of the liquid crystal device.

**9 Claims, 10 Drawing Sheets**



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