

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

United States Patent No.: 7,915,631	§ Attorney Docket No.: 112868-0001-651
Inventors: Yoshinori Shimizu, et al.	§ Customer No. 28120
Formerly Application No.: 12/548,618	§ Petitioner: VIZIO, Inc.
Issue Date: Mar. 29, 2011	§
Filing Date: Aug. 27, 2009	§
Former Group Art Unit: 2822	§
Former Examiner: Michael Trinh	§

For: LIGHT EMITTING DEVICE AND DISPLAY

MAIL STOP PATENT BOARD
Patent Trial and Appeal Board
United States Patent and Trademark Office
Post Office Box 1450
Alexandria, Virginia 22313-1450

**DECLARATION OF YING ZHANG
IN SUPPORT OF PETITION FOR
INTER PARTES REVIEW OF
UNITED STATES PATENT NO. 7,915,631**

I, Ying Zhang, make the following Declaration pursuant to 28 U.S.C. § 1746:

1. I am a Library Technical Services Specialist at the law firm of Ropes & Gray LLP.

2. I provide this Declaration in connection with the above-identified *Inter Partes* Review proceeding requested at the United States Patent and Trademark Office by VIZIO, Inc. Unless otherwise stated, the facts stated in this Declaration are based on my personal knowledge.

3. Exhibit 1016 hereto is a true and correct copy of an excerpt from *Semiconductor Optoelectronic Devices*, by P. Bhattacharya, published by Prentice Hall in 1994, which I obtained on October 31, 2016 from the Library of Congress. An exhibit label and page numbers on all pages have been added to the bottom of this document, but no other alterations have been made.

4. Exhibit 1018 hereto is a true and correct copy of an excerpt from *Luminescent Materials*, by G. Blasse and B. C. Grabmaier, published by Springer-Verlag in 1994, which I obtained on October 31, 2016 from the Library of Congress. An exhibit label and page numbers on all pages have been added to the bottom of this document, but no other alterations have been made.

5. Exhibit 1021 hereto is a true and correct copy of an article entitled *Colourshift of the Ce³⁺ Emission in Monocrystalline Epitaxially Grown Garnet Layers*, by J. M. Robertson, et al., published in *Phillips Journal of Research*, Volume 36, Number 1, and dated 1981, which I obtained on November 17, 2016 from InfoNOW at University of Minnesota Libraries. An exhibit label and page numbers on all pages have been added to the bottom of this document, but no other alterations have been made.


6. Exhibit 1024 hereto is a true and correct copy of an article entitled *Investigation of Some Ce³⁺-Activated Phosphors*, by G. Blasse and A. Brill, published in *The Journal of Chemical Physics*, Volume 47, Number 12, and dated

December 15, 1967, which I downloaded on November 14, 2016 from AIP Publishing website (<http://aip.scitation.org/journal/jcp>), to which all parties have access. An exhibit label and page numbers on all pages have been added to the bottom of this document, but no other alterations have been made.

7. I have been warned that willful false statements and the like are punishable by fine or imprisonment, or both. I make this declaration of my own personal knowledge, and all statements are true. If called to testify as to the matters stated herein, I could and would testify competently.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this 21st day of December, 2016, at Washington, DC.



YING ZHANG