

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SONY CORPORATION
Petitioner

v.

INNOVATIVE DISPLAY TECHNOLOGIES LLC
Patent Owner

Case:

U.S. Patent No. 7,384,177

DECLARATION OF RICHARD A. FLASCK

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I, RICHARD A. FLASCK, declare and state as follows:

I. INTRODUCTION

1. I have been retained by Sony Corporation ("Sony") as an expert in the relevant art.

2. I have been asked to provide my opinions and views on the materials I have reviewed in this case related to Ex. 1001, U.S. Patent No. 7,384,177 ("the '177 Patent"), and the scientific and technical knowledge regarding the same subject matter before and for a period following the date of the first application for the '177 Patent was filed.

3. I am being compensated at the rate of \$375/hour for my work, plus reimbursement for expenses. My compensation has not influenced any of my opinions in this matter and does not depend on the outcome of this proceeding or any issue in it.

4. My opinion and underlying reasoning for this opinion is set forth below.

A. Background and Qualifications

5. I received a Bachelor of Science degree in Physics from the University of Michigan (Ann Arbor, MI) in 1970. I received a Master of Science degree in Physics from Oakland University (Rochester, MI) in 1976.

6. My forty-four year career has involved high tech product development, intellectual property issues, projection displays, optical design and components (including illumination systems), LCD flat panel displays and modules, backlighting of

flat panel displays, CCFL and LED product development, injection molding, chip-on-board development, and High Definition Television (HDTV) systems.

7. I founded Alphasil, Inc. in 1982 and was one of the first to work in amorphous silicon thin film transistor ("TFT") active matrix liquid crystal displays ("LCD"). As CEO of Alphasil, I was responsible for establishing the first amorphous silicon TFT LCD pilot production line (2000 square feet of class 10 cleanroom) in Fremont California in 1986.

8. My experience includes developing the TFT active matrix circuits and production processes, video controllers, scalers, gate drive circuits, data drive circuits, and cold cathode fluorescent lamp ("CCFL") backlight units ("BLU") for the LCD modules which Alphasil developed and sold. This activity included the design and development of BLUs and CCFL drive circuit technology.

9. At Alphasil, I pioneered the use of CCFLs in LCD backlight units (BLUs) starting in 1986. By 1988 I had managed the development of some of the first LCD backlight units (BLUs), including one of the first dimming inverters (then called "electronic ballasts") for driving CCFLs in such BLUs.

10. I founded RAF Electronics Corp. in 1989 and pioneered Liquid Crystal On Silicon ("LCOS") projection technology. My experience included developing LCD microdisplay circuits, video controller, scalers, and illumination systems for LCOS microdisplays.

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