UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,
Petitioner

v.

SOLAS OLED, LTD.,
Patent Owner

Inter Partes Review Case No. IPR2020-01059
U.S. Patent No. 6,072,450

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 6,072,450

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LIST OF EXHIBITS

Exhibit	Description
1001	U.S. Patent No. 6,072,450 (the "'450 patent")
1002	File History for U.S. Patent No. 6,072,450
1003	U.S. Patent No. 5,670,792 ("Utsugi")
1004	JPH053079 (certified translation, "Manabe")
1005	WO 96/25020 (certified translation, "Eida")
1006	S.W. Amos, Principles of Transistor Circuits, 8th Ed. (1994)
1007	Declaration of Dr. Adam Fontecchio
1008	*Curriculum Vitae* of Dr. Adam Fontecchio
1009	JPH053079 ("Manabe")
1010	WO 96/25020 ("Eida")
1011	U.S. Patent No. 5,847,516 ("Kishita")

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TABLE OF CONTENTS

I. INTRODUCTION 1
II. STANDING, MANDATORY NOTICES, AND FEE AUTHORIZATION 3
III. SUMMARY OF CHALLENGE 5
IV. OVERVIEW OF THE '450 PATENT 6
A. Prosecution History.....11
V. LEVEL OF ORDINARY SKILL 12
VI. CLAIM CONSTRUCTION 12
A. "active elements" 12
VII. OVERVIEW OF THE PRIOR ART 13
A. Utsugi (Ex. 1003).....13
B. Manabe (Ex. 1004) 15
C. Eida (Ex. 1005).....16
VIII. APPLICATION OF PRIOR ART TO THE CHALLENGED CLAIMS 20
A. Ground I: Claims 1–2, 4–8, and 15–16 Are Anticipated by Utsugi. 21
1. Claim 1 21
2. Dependent Claim 2 30
3. Dependent Claim 4 30
4. Dependent Claim 5 33
5. Dependent Claim 6 33
6. Dependent Claim 7 35
7. Dependent Claims 8 and 16 39
8. Claim 15 40
B. Ground II: Claims 1–2, 4–8, and 15–16 Are Obvious Over Utsugi. 52
1. Claim 1 53
2. Dependent Claims 2 and 4–7 55
3. Dependent Claims 8 and 16 55
4. Claim 15 57
C. Ground III: Claim 3 Is Obvious Over the Combination of Utsugi and Manabe. 61

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1. Dependent Claim 3 61
D. Ground IV: Claims 9, 11–13, and 17–18 Are Obvious Over the Combination of Utsugi and Eida. 66
1. Motivation to Combine Eida with Utsugi 67
2. Dependent Claim 9 70
3. Dependent Claim 11 71
4. Dependent Claim 12 75
5. Dependent Claim 13 77
6. Dependent Claim 17 79
7. Dependent Claim 18 81
IX. CONCLUSION 81

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I. INTRODUCTION

Apple Inc. ("Petitioner") petition for *inter partes* review seeking cancellation of claims 1–9, 11–13, and 15–18 of U.S. Patent No. 6,072,450 (Ex. 1001, "'450 patent"), assigned to Solas OLED, Ltd. ("Patent Owner").

The '450 patent relates to an active matrix organic electroluminescent display (OLED) having a particular pixel area structure. In particular, the patent is directed to a display in which a first electrode (the cathode), an electroluminescent layer, and a second electrode (the anode) are all formed "so as to cover" the transistors for each pixel, with the first electrode shielding the transistors from visible light. Ex. 1001, 3:28–31; Ex. 1007, ¶ 45. This structure is shown in annotated Figure 2 below. Ex. 1001, 1:1:5–8, 2:66–3:7

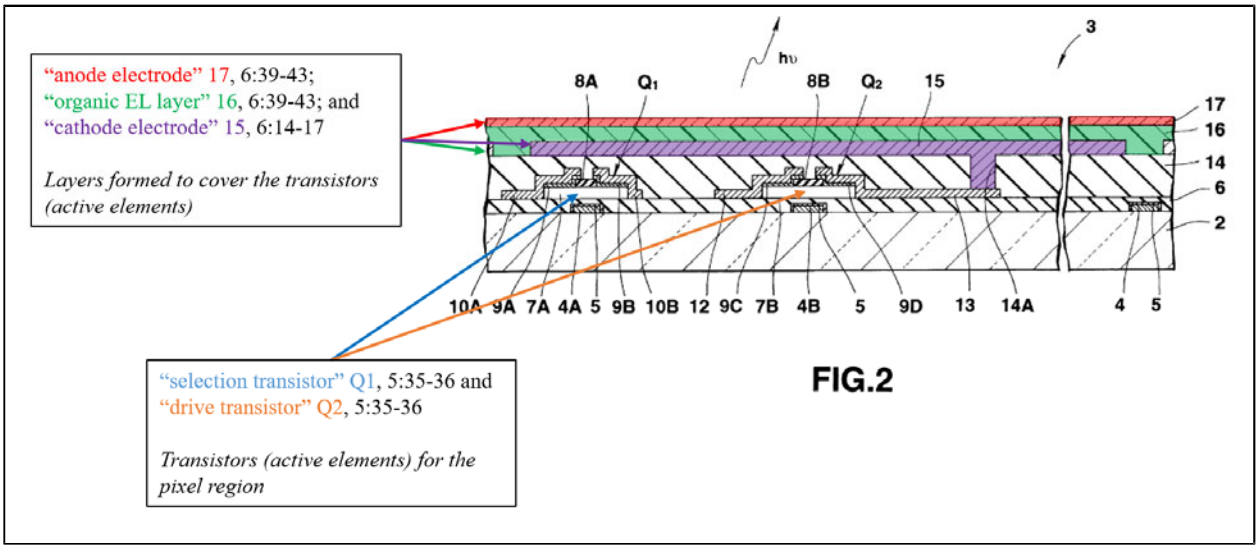

FIG.2

The purported benefits of such a structure are twofold: (1) to enlarge the overall light-emitting area of the pixel, allowing for high luminescence (brightness), and (2)

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