UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TCL Electronics Holdings Ltd. (f/k/a TCL Multimedia Technology Holdings, Ltd. TCL Industries Holdings Co., Ltd. TCL Industries Holdings (H.K.) Limited TTE Technology, Inc. (d/b/a TCL North America) TTE Corporation TCL Moka International Limited TCL Moka Manufacturing S.A. de C.V. TCL King Electrical Appliances (Huizhou) Co. Ltd. Manufacturas Avanzadas S.A. de C.V. TCL Smart Device (Vietnam) Co., Ltd Shenzhen TCL New Technology Co., Ltd. TCL Optoelectronics Technology (Huizhou) Co., Ltd. TCL Overseas Marketing Ltd. TCL Technology Group Corporation (f/k/a TCL Corp.),

Petitioners

v.

LG Electronics Inc. Patent Owner

Case No. IPR2023-00240

PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 7,982,803

TABLE OF CONTENTS

Table	Table of Authoritiesix						
Petiti	Petitioners' Exhibit Listx						
I.	Intro	Introduction1					
II.	Mano	datory Notices1					
	A.	Real Party	-in-Interest1				
	В.	Related Ma	atters2				
	C.	Lead and H	Back-Up Counsel2				
	D.	Service Inf	Cormation				
III.	Payment of Fees						
IV.	Requirements for Inter Partes Review under 37 C.F.R. § 42.104						
	A.	Grounds fo	or Standing				
	В.	Claims for	Which Review Is Requested4				
	C.	Statutory (Grounds of Challenge4				
	D.	Proposed (Claim Constructions4				
	Е.	How the C	onstrued Claims Are Unpatentable4				
	F.	Supporting	g Evidence4				
V.	The '803 Patent						
	A.	Summary	of the '803 Patent5				
	B.	Level of O	rdinary Skill in the Art13				
	C.	Prosecutio	n History13				
VI.		THE PRIOR ART - u.S . PUBLICATION NO. 2004/0117858 TO BOUDREAU ET AL					
VII.		CLAIMS 1-18 OF THE '803 PATENT ARE UNPATENTABLE UNDER 35 U.S.C. §103 IN VIEW OF BOUDREAU ET AL					
	A. Independent Claim 1						
		a)	Limitation 1[pre]: "An audio and video synchronizing apparatus comprising"				

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Limitation 1[a]: "a video signal processing unit processing a video signal that is provided to a display device of video processing equipment;"
Limitation 1[b]: "an audio signal processing unit processing an audio signal that is provided to an audio device of the video processing equipment, the audio signal synchronized with the video signal;"31
Limitation 1[c]: "a switching unit selecting paths for the video signal that is input to the video signal processing unit and the audio signal that is input to the audio signal processing unit, and selecting at least an audio signal for output to an external device that is not part of the video processing equipment;"
Limitation 1[d]: "an outputting unit outputting the selected at least an audio signal to the external device; and"
Limitation 1[e]: "an output selecting unit controlling the switching unit according to a kind of the external device, wherein the switching unit is controlled to select a first audio signal that bypasses the audio signal that is input to the audio signal processing unit as the at least an audio signal for output to the external device or to select a second audio signal output from the audio signal for output to the audio signal for output to the audio signal output from the audio signal for output to the outputting unit."
The apparatus according to claim 1, further comprising detecting the kind of the external device connected to ing unit."
The apparatus according to claim 1, wherein the kind rnal device connected to the outputting unit is either an o device or an audio device."
The apparatus according to claim 3, wherein the init is controlled to select the second audio signal when ined that the external device connected to the unit is the audio."

B.

C.

D.

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Е.	of the exte determine	The apparatus according to claim 1, wherein the kind rnal device connected to the outputting unit is d according to whether the external device is connected output port or an audio output port."	
F.	Independe	nt Claim 640	
	a)	Limitation 1[pre]: "An audio and video synchronizing apparatus comprising"40	
	b)	Limitation 6[a]: "a video signal processing unit processing a video signal that is provided to a display device of video processing equipment;"40	
	c)	Limitation 6[b]: "an audio signal processing unit processing an audio signal that is provided to an audio device of the video processing equipment, the audio signal synchronized with the video signal; and"40	
	d)	Limitation 6[c]: "an output selecting unit selecting an audio signal that is output to an external device that is not part of the video processing equipment,"	
	e)	Limitation Claim 6[d]: "wherein the output selecting unit selects a first audio signal that bypasses the audio signal that is input to the audio signal processing unit as the audio signal that is output to the external device or selects a second audio signal output from the audio signal processing unit as the audio signal that is output to the external device."	
G.	Independent Claim 7		
	a)	Limitation 7[pre]: "An audio and video synchronizing apparatus comprising:"41	
	b)	Limitation 7[a], "a video signal processing unit processing a video signal that is provided to a display device of video processing equipment;"41	
	c)	Limitation 7[b], "an audio signal processing unit outputting an audio signal that is synchronized with the video signal; and"	

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	d)	Limitation 7[c], "an audio output selecting unit selecting an audio signal that is output to an external device that is not part of the video processing equipment,"
	e)	Limitation 7[d], "wherein the audio output selecting unit selects an audio signal that bypasses the audio signal that is input to the audio signal processing unit or selects an audio signal output from the audio signal processing unit that is synchronized with the video signal as the audio signal that is output to the external device."
H. In	depende	nt Claim 842
	a)	Limitation 8[pre]: "An audio and video synchronizing apparatus comprising:"
	b)	Limitation 8[a]: "a video signal processing unit processing a video signal that is provided to a display device of video processing equipment;"
	c)	Limitation 8[b]: "an audio signal processing unit processing an audio signal that is provided to an audio device of the video processing equipment, the audio signal synchronized with the video signal;"
	d)	Limitation 8[c], "an outputting unit outputting at least an audio signal to an external device that is not part of the video processing equipment; and"
	e)	Limitation 8[d]: "an output selecting unit controlling the outputting unit according to a kind of the external device, wherein the output selecting unit controls the outputting unit to select a first audio signal that bypasses the audio signal that is input to the audio signal processing unit as the at lease an audio signal output to the external device or to select a second audio signal output from the audio signal processing unit as the at least an audio signal output to the external device."
I. In	depende	nt Claim 944
	a)	Limitation 9[pre], "An audio and video synchronizing apparatus comprising:"

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