

Exhibit 1012

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION

LG Electronics Inc.,

Plaintiff,

v.

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.; and TCL Technology Group Corporation (f/k/a TCL Corp.),

Defendants.

Civil Action No. 2:22-CV-122-JRG

JURY TRIAL DEMANDED

**PLAINTIFF LG ELECTRONIC INC.'S PRELIMINARY CLAIM
CONSTRUCTIONS AND SUPPORTING MATERIALS**

Pursuant to Patent Local Rule 4-2, Plaintiff LG Electronic Inc.'s ("LGE") hereby submits its preliminary claim construction and preliminary identification of extrinsic evidence for U.S. Patent Nos. 7,982,803 ("803 patent"), 7,839,452 ("452 patent"), 10,334,311 ("311 patent"), 9,080,740 ("740 patent"), 9,788,346 ("346 patent"), and 10,499,431 ("431 patent"). LGE reserves the right to amend or supplement its proposed constructions and extrinsic evidence, consistent with the Federal Rules of Civil Procedure and the Local Patent Rules of the District Court of the Eastern District of Texas.

The following proposed claim constructions and identification of extrinsic evidence are not intended to indicate that such terms need to be construed by the Court. LGE reserves the right to use rebuttal experts on any issues that Defendants identify that it will offer expert testimony on.

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
<u>U.S. Patent Nos. 9,788,346</u>			
1	“station”	Plain and ordinary meaning, which includes an Access-Point (AP) station (such as a wireless router at home) or a non-AP station (such as a laptop, smartphone, or smart television), that includes Medium Access Control (MAC) and a physical layer interface to the wireless medium.	IEEE 802.11ac-2013 (LGE-TCL-000034890-LGE-TCL-000035314); IEEE 802.11-2016 (LGE-TCL-000031356-LGE-TCL-000034889); IEEE 802.11-2020 (LGE-TCL-000035315-LGE-TCL-000039693); LGE intends to rely on the testimony of Dr. Chris Hansen, whose CV is attached as Exhibit A. Dr. Hansen will testify that a POSITA at the time of the '346 and '431 patents would understand the term “station” as used in the '346 and '431 patents to have its plain and ordinary meaning. Dr. Hansen will testify further that the plain and ordinary meaning of “station” includes an Access-Point (AP) station (such as a wireless router at home) or a non-AP station (such as a laptop, smartphone, or smart television), that includes Medium Access Control (MAC) and a physical layer interface to the wireless medium. Dr. Hansen’s testimony will include a discussion of the background technology, including the relevant IEEE 802.11 standards on Wi-Fi, and the knowledge and level of skill of a POSITA. His testimony may further include analysis of the intrinsic record as it relates to this term.

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
2	“Very High Throughput (VHT)”	A very high throughput (VHT) system is a next generation of the IEEE 802.11n WLAN system, now known as 802.11ac or Wi-Fi 5.	IEEE 802.11ac-2013 (LGE-TCL-000034890-LGE-TCL-000035314); IEEE 802.11-2016 (LGE-TCL-000031356-LGE-TCL-000034889); IEEE 802.11-2020 (LGE-TCL-000035315-LGE-TCL-000039693); LGE intends to rely on the testimony of Dr. Chris Hansen. Dr. Hansen will testify that a POSITA at the time of the '346 patent would understand the term “Very High Throughput (VHT)” as used in the '346 patent to include a very high throughput (VHT) system which is a next generation of the IEEE 802.11n WLAN system, now known as 802.11ac or Wi-Fi 5. Dr. Hansen’s testimony will include a discussion of the background technology, including the relevant IEEE 802.11 standards on Wi-Fi, and the knowledge and level of skill of a POSITA. His testimony may further include analysis of the intrinsic record as it relates to this term.

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
3	“Access Point (AP) station”	“station” is construed above. An “Access Point (AP) station” is the station included in an Access Point (such as in a wireless router at home).	IEEE 802.11ac-2013 (LGE-TCL-000034890-LGE-TCL-000035314); IEEE 802.11-2016 (LGE-TCL-000031356-LGE-TCL-000034889); IEEE 802.11-2020 (LGE-TCL-000035315-LGE-TCL-000039693); LGE intends to rely on the testimony of Dr. Chris Hansen. Dr. Hansen will testify that a POSITA at the time of the ’346 patent would understand the term “Access Point (AP) station” as used in the ’346 patent is the station included in an Access Point (such as in a wireless router at home). Dr. Hansen’s testimony will include a discussion of the background technology, including the relevant IEEE 802.11 standards on Wi-Fi, and the knowledge and level of skill of a POSITA. His testimony may further include analysis of the intrinsic record as it relates to this term.
<u>U.S. Patent No. 10,499,431</u>			
4	“station”	See disclosure provided in Term No. 1.	See disclosure provided in Term No. 1.
<u>U.S. Patent No. 7,839,452</u>			

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
5	“bit map conversion,” “bit map converter,” “convert[s] the text data into [the] bit map data”	The identified claim terms, in context, require converting text data which is not bit map data into bit map data.	Foley et al., Computer Graphics (2d ed. 1997) (LGE-TCL-000063718-LGE-TCL-000063787); PixelWorks Note dated August 16, 1999 (LGE-TCL-000063838-LGE-TCL-000063839); ATSC Standard A/52 (Dec. 20, 1995) (LGE-TCL-000063082-LGE-TCL-000063221); ATSC Standard A/53 (Sept. 16, 1995) (LGE-TCL-000063222-LGE-TCL-000063295); ATSC Standard A/53 (Part 4) (LGE-TCL-000031338-LGE-TCL-000031355); ATSC Standard A/65 (Rev. A) (May 31, 2000) (LGE-TCL-000063350-LGE-TCL-000063489); ATSC Standard A/65 (Aug. 7, 2013) (LGE-TCL-000031196-LGE-TCL-000031337); ATSC Standard A/69 (June 25, 2002) (LGE-TCL-000063490-LGE-TCL-000063582); ATSC Standard A/343 (Oct. 10, 2018) (LGE-TCL-000031180-LGE-TCL-000031195); ATSC Standard A/55 (LGE-TCL-000063296-LGE-TCL-000063349); ANSI/CEA-608-B (LGE-TCL-000062928-LGE-TCL-000063081); CEA-708-B (LGE-TCL-000063583-LGE-TCL-000063689); 47 CFR Part 73, e.g., §73.682; LGE intends to rely on the testimony of Professor John Hart, whose CV is attached as Exhibit B. Professor Hart will testify that a POSITA at the time of the ’452 patent would understand the identified claim terms to require converting text data which is not bit map data into bit map data. Professor Hart’s testimony will include a discussion of the background technology and the knowledge and level of skill of a POSITA. His testimony may further include analysis of the intrinsic record as it relates to this term.

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
6	“format-conversion,” “converted in format,” “a format converter,” “convert the format of the ... bit map data”	The identified claim terms, in context, require adjusting the resolution of the bit map data to correspond to the resolution of the display.	Foley et al., Computer Graphics (2d ed. 1997) (LGE-TCL-000063718-LGE-TCL-000063787); PixelWorks Note dated August 16, 1999 (LGE-TCL-000063838-LGE-TCL-000063839); ATSC Standard A/52 (Dec. 20, 1995) (LGE-TCL-000063082-LGE-TCL-000063221); ATSC Standard A/53 (Sept. 16, 1995) (LGE-TCL-000063222-LGE-TCL-000063295); ATSC Standard A/53 (Part 4) (LGE-TCL-000031338-LGE-TCL-000031355); ATSC Standard A/65 (Rev. A) (May 31, 2000) (LGE-TCL-000063350-LGE-TCL-000063489); ATSC Standard A/65 (Aug. 7, 2013) (LGE-TCL-000031196-LGE-TCL-000031337); ATSC Standard A/69 (June 25, 2002) (LGE-TCL-000063490-LGE-TCL-000063582); ATSC Standard A/343 (Oct. 10, 2018) (LGE-TCL-000031180-LGE-TCL-000031195); ATSC Standard A/55 (LGE-TCL-000063296-LGE-TCL-000063349); ANSI/CEA-608-B (LGE-TCL-000062928-LGE-TCL-000063081); CEA-708-B (LGE-TCL-000063583-LGE-TCL-000063689); 47 CFR Part 73, e.g., §73.682; LGE intends to rely on the testimony of Professor John Hart. Professor Hart will testify that a POSITA at the time of the ’452 patent would understand the identified claim terms to require adjusting the resolution of the bit map data to correspond to the resolution of the display. Professor Hart’s testimony will include a discussion of the background technology and the knowledge and level of skill of a POSITA. His testimony may further include analysis of the intrinsic record as it relates to this term.

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
<u>U.S. Patent No. 10,334,311</u>			
7	“icon(s)”	Plain and ordinary meaning, which requires more than just text.	Microsoft Computer Dictionary (4 th Edition) (LGE-TCL-000063803-LGE-TCL-000063805); Macintosh Human Interface Guidelines (LGE-TCL-000063819-LGE-TCL-000063837); Computer Desktop Encyclopedia (9 th Edition) (LGE-TCL-000063791-LGE-TCL-000063795); New Oxford American Dictionary (3 rd Edition) (LGE-TCL-000063806-LGE-TCL-000063808); Concise Oxford English Dictionary (11 th Edition) (LGE-TCL-000063796-LGE-TCL-000063798); The American Heritage College Dictionary (3 rd Edition) (LGE-TCL-000063809-LGE-TCL-000063813); The American Heritage Dictionary (5 th Edition) (LGE-TCL-000063788-LGE-TCL-000063790); Merriam-Webster’s Collegiate Dictionary (11 th Edition) (LGE-TCL-000063799-LGE-TCL-000063802); Webster’s II New College Dictionary (LGE-TCL-000063814-LGE-TCL-000063818); LGE PowerPoint, “How to indicate external inputs on TV and how to use the space remote controller” (May 25, 2011) (LGE-TCL-000010060-LGE-TCL-000010068).
8	“first/second default image”	Plain and ordinary meaning.	
9	“select,” “selected,” and “selectable”	Plain and ordinary meaning, which includes selection by placing a cursor on, or highlighting, an icon.	LGE PowerPoint, “How to indicate external inputs on TV and how to use the space remote controller” (May 25, 2011) (LGE-TCL-000010060-LGE-TCL-000010068).

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
10	“cursor”	Plain and ordinary meaning, which includes any movable indicator on a display.	Microsoft Computer Dictionary (4 th Edition) (LGE-TCL-000063698-LGE-TCL-000063701); New Oxford American Dictionary (3 rd Edition) (LGE-TCL-000063702-LGE-TCL-000063704); Concise Oxford English Dictionary (11 th Edition) (LGE-TCL-000063690-LGE-TCL-000063693); The American Heritage College Dictionary (3 rd Edition) (LGE-TCL-000063705-LGE-TCL-000063709); The American Heritage Dictionary (5th Edition) (LGE-TCL-000063710-LGE-TCL-000063712); Merriam-Webster’s Collegiate Dictionary (11 th Edition) (LGE-TCL-000063694-LGE-TCL-000063697); Webster’s II New College Dictionary (LGE-TCL-000063713-LGE-TCL-000063717); LGE PowerPoint, “How to indicate external inputs on TV and how to use the space remote controller” (May 25, 2011) (LGE-TCL-000010060-LGE-TCL-000010068).
<u>U.S. Patent No. 7,982,803¹</u>			
11	“a kind of an/the external device/detecting/determining the kind of an/the external device”	Plain and ordinary meaning.	

¹ To the extent TCL identifies any claim limitations from this patent for which it intends to offer expert testimony, then LGE intends to rely on the expert testimony of Professor John Villasenor with respect to the same issues identified by TCL. Professor Villasenor’s CV is attached as Exhibit C.

Term No.	Claim Term(s) or Phrase	Preliminary Construction	Extrinsic Evidence
12	“controlling the switching unit/the outputting unit according to a kind of the external device/ selecting an audio signal according to a result of the determination and outputting the selected audio signal to the external device”	Plain and ordinary meaning.	
13	“selecting at least an audio signal for output to an external device/ selecting an audio signal that is output to an external device/ selecting an audio signal . . . for output to an external audio device”	Plain and ordinary meaning.	
14	“selecting an output mode of video processing equipment”	Plain and ordinary meaning.	

Date: March 28, 2023

/s/ Mark Speegle

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that counsel of record who are deemed to have consented to electronic services are being served with a copy of this document via the Court's CM/ECF system per Local Rule CV-5(a)(3) on this the 28th day of March 2023.

/s/ Mark Speegle

Mark Speegle