

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

Patent L.R. 3-1(d):

Knowledge of Infringement

Though discovery is ongoing, Defendants have been aware that operation of the 760 Accused Products infringed the '760 Patent since at least July 19, 2021, based on correspondence directed to Mr. Hwi jae Cho. See Letter from T. Yamamoto to H. Cho dated Jul. 19, 2021 (Complaint, Exhibit 2).

Inducement

Defendants engage in acts that induce the end user of the 760 Accused Products to directly infringe the asserted claims. Defendants provide the 760 Accused Products to end users, by direct sales and by placing them into the stream of commerce with features that Defendants intend to be used in an infringing manner. Defendants act in concert to provide user guides and product literature showing that Defendants intend that the infringing features, including the ability to use the 760 Accused Products to record pictures and videos and then to reproduce these in a manner that infringes the asserted claims, be performed by users. For example, Defendants market the video and still picture recording capabilities of the accused devices as “key features”:

LG V60 ThinQ™ 5G | T-Mobile

★★★★★ 4.2 (81) [Write a review](#)

Key Features

[All Specs](#)

- Ultimate multi-tasking with the LG Dual Screen™ (Sold separately)
- 6.8" OLED Display
- 8K Video Recording
- Triple Camera System: 64 MP Standard, 13 MP Ultra-Wide, Z-Camera

<https://www.lg.com/us/cell-phones/lg-lmv600tmlatmocb-tmobile-v60-thinq-5g>

LG G6 

LG G6 - Platinum Color

☆☆☆☆☆ 0 (0)

Write a review

Key Features

- Next Generation of Design
- 5.7" QHD FullVision Display
- Wide Angle Front Camera
- Dual 13MP Rear Cameras
- Square Camera Mode

https://www.lg.com/levant_en/mobile-phones/lg-g6-platinum

LG G5™ | Verizon Wireless

★★★★ 4.0 (729) [Write a review](#)

Key Features

All Specs

- 5.3" IPS Quantum QHD Display
- Slide-Out Removable 2,800 mAh Battery
- Metal Body Aluminum Alloy
- Dual Rear Cameras: 16 MP Standard Angle Lens & 8 MP Wide Angle Lens
- 8 MP Front Camera and Full HD Camcorder

<https://www.lg.com/us/cell-phones/lg-VS987-Titan-g5>

LG V30S ThinQ™ | Unlocked

★★★★★ 4.6 (3494) [Write a review](#)

Key Features

All Specs

- 6.0" 2880 x 1440 OLED Display
- Dual-Rear 16MP and 13MP Cameras
- 128GB Storage Capacity + 6GB of RAM
- 4K Ultra HD Video Recording

<https://www.lg.com/us/cell-phones/lg-US998R-Unlocked-Matte-v30s>

LG K92™ 5G | U.S. Cellular

★★★★☆ 4.3 (6) [Write a review](#)

Key Features

All Specs

- 5G Connectivity
- Quad Camera
- 16 MP Selfie Camera
- 6.7" Display FHD+ FullVision' Punch Hole Display
- 128GB Storage (usable up to 99GB)*
- Side mounted fingerprint sensor

<https://www.lg.com/us/cell-phones/lg-lmk920tm0auctn-usc-k92-5g>

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Key Specifications: *

Chipset: Qualcomm® Snapdragon™ 435 Mobile Platform
Display: 5.5-inch 18:9 FHD+ FullVision Display (2160 x 1080 / 442ppi)
Memory:
Q6+: 4GB RAM / 64GB ROM
Q6: 3GB RAM / 32GB ROM
Camera: Rear 13MP Standard Angle / Front 5MP Wide Angle
Battery: 3,000mAh (embedded)
Operating System: Android 7.1.1 Nougat
Size: 142.5 x 69.3 x 8.1mm
Weight: 149g
Network: LTE / 3G / 2G
Connectivity: Wi-Fi 802.11 b, g, n / Bluetooth 4.2 / NFC / USB Type-B 2.0
Other: Face Recognition / Google Assistant / Square Camera / Steady Record / FM Radio

<https://www.lg.com/ae/about-lg/press-media/lg-q6-with-fullvision-experience-now-available-in-the-gulf>

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

Video Recording	
4K Video Recording at 30 FPS Included	Resolution Up to 3840 x 2160 pixels (1920 x 1080 default)
HDR10 Video Recording Life-like footage with a wider spectrum of colors that are richer and more accurate, and greater contrast between light and dark*	Cine Effect Choose from 15 different color grading presets to add a cinematic look
Point Zoom Zoom in on any selected area within the frame for more stability and control	Steady Record 2.0 Record smoother, clearer videos on the move
Video Manual Mode** Adjust audio focus, manual focus, white balance, frame rates, and more	LG-Cine Log When in Manual Mode, capture 211% wider color gamut (Rec.2020) for enhanced video
HD 240 FPS Slow Motion Video Recording Included	Time-Lapse Video Record a video that plays back faster than normal

<https://web.archive.org/web/20180610094934/https://www.lg.com/us/cell-phones/lg-G710VMX-g7-thinq-us-cellular>

Defendants also specifically markets its photography and video recording functions in order to encourage end users to infringe.
For example:

Get Creative with the LG G6 Camera

MOBILE PHONES MWC

BY SHAZIA BEGUM



With both front and rear wide angle cameras on
the LG G6 – it's time to say goodbye to the selfie
stick

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https://www.lg.com/uk/lg-experience-test/lg-lab/get-creative-with-the-lg-g6-camera/?srsltid=AfmBOoq3VnDaGhom5dPQZlIcAyu_2GTN-oG5QOx5W-37Qe1E5Lihe200

The technology behind smartphone camera is advancing each day, and LG continues to lead the way with the LG G6. LG has always focused on the development of smartphone camera, as part of its heritage. Past innovations have included Optical Image Stabilization (OIS) technology, allowing for clearer images. It was first introduced on the G2, and since further enhanced. LG also introduced Laser Auto Focus on the G3, a revolutionary industry-first technology that uses a laser beam to achieve the perfect focus. With these and many other past innovations, you can be sure that the camera on the LG G6 is going to continue to lead the trend.

Id.

Discovery is ongoing, and on information and belief further discovery will produce additional marketing materials relating to each 760 Accused Product that demonstrate that Defendants marketed the 760 Accused Products so as to encourage end users to operate the devices in an infringing manner.

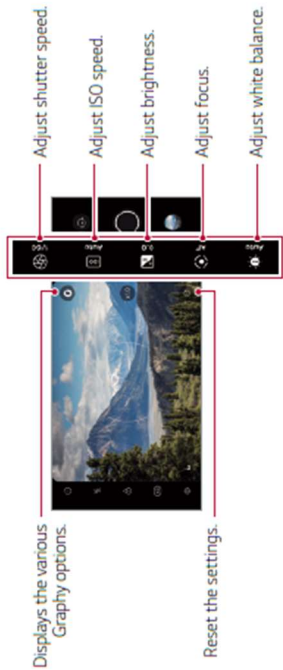
User guides also show that Defendants intended and instructed end users to operate the 760 Accused Products in an infringing manner, including by providing instructions that, when followed, result in infringement. Examples of such material is included

throughout Plaintiff's Patent L.R. 3-1(c) disclosures, which show user guide excerpts that provide instructions that, when followed, infringe the asserted claims. For example:

Manual camera mode

You can create professional level photos by using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options.

- 1 On the home screen, tap .
- 2 Select **More** by swiping camera modes, then tap .
- 3 Customize the following camera settings.
 - If you set **Auto** for options, the options are automatically adjusted according to the shooting target and environment.
 - If the **Focus peaking** option is set, the focused area is highlighted in color. This feature is available only in Manual Focus (MF) mode.



4 Tap  to take the photo.



- If you tap , a list of recommended photos with various settings will appear.
- Selecting the Graphy effects allows you to shoot using the white balance, shutter speed, and ISO setting values applied to the recommended photo.

Customizing the camera options

You can customize a variety of camera options to suit your preferences. Tap  on the screen.

SAVE OPTIONS	Photo size	Allows you to choose the photo size and resolution.
	Save as RAW	The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.
	Ultra wide shot distortion correction	Corrects the screen distortion when taking ultra wide-angle photos.

LG V60 ThinQ 5G User Manual, at 87-88.

Camera features

Wide-angle camera

You can take photos or record videos with a wider range than your actual field of vision by using the wide-angle on the rear camera.

Tap  >  /  to switch between the standard and wide-angle.



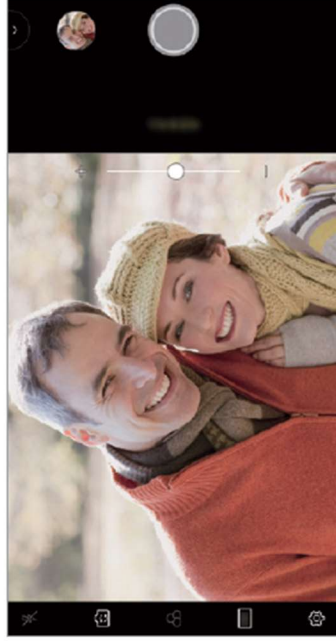
Rear camera

LG G7 ThinQ User Manual, at 6.

Portrait

You can take a sharp portrait by applying the camera lens blur effect.

- 1 Tap , then tap **Portrait**.
- 2 Tap  to take a photo.
 - To adjust blur strength, drag the slide bar up, down, left or right (depending on the orientation of the phone).



-  • Keep the distance to your subject within 1.3 ~ 5.0 feet when using the rear camera.
- This feature is not available if the surroundings are too dark.
 - After applying this feature, touch and hold the desired position on the preview screen to automatically apply the exposure value and focus. In this case, the Portrait feature and blur strength stay the same.

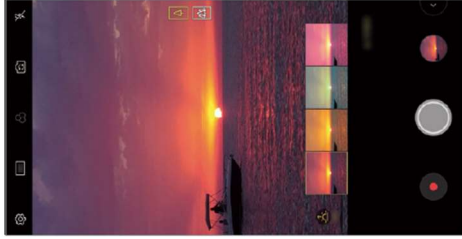
AI CAM

You can use the AI Cam feature to automatically recognize the object when taking a photo or recording a video for an optimal quality.

- 1 Tap , then tap **AI CAM**.
- 2 When the object is recognized, the best effect for the scene is applied.
 - To apply other effects, tap the scene icon.
 - A total of 19 categories, such as portrait, pets, food, sunrise, sunset, scenery, city view, flowers, babies, sky, beach, etc, can be recognized automatically.



Portrait



Sunset



Flower



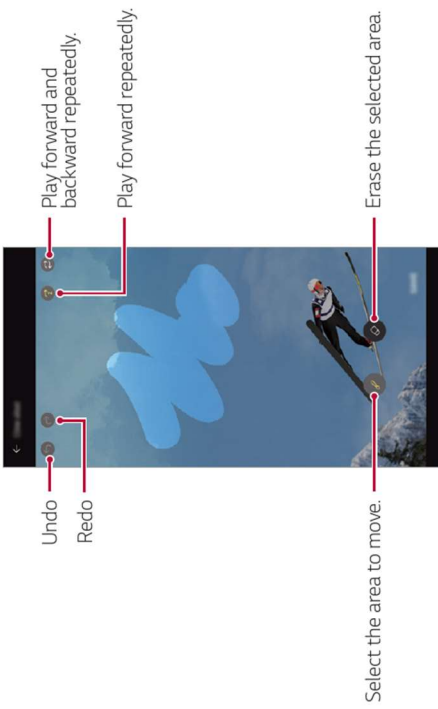
- The result of the scene recognition may differ depending on the illumination or the location of the subject while taking photos. Keywords do not appear on the actual photos or videos.
- This feature is available only when the front and rear cameras are in the Auto mode.

Cine shot

You can record a moment and make a video with only a part of the scene in motion.

While recording a video, hold the device steady. After recorded, rub the area in the video you want in motion. The selected area starts moving and the rest of the video remains still.

- 1 Tap  >  > **Cine shot** .
- 2 Tap  to record a 3 second video.
 - Hold the device steady while recording the video.
- 3 Tap  and rub the area you want in motion with the cine shot effect.



- Tap  to erase the selected area.
 - Tap  to play the selected area in motion forward repeatedly.
 - Tap  to play the selected area in motion forward and backward repeatedly.
- 4 Tap **SAVE**.
 - The selected area will be in motion.

LG G7 ThinQ User Manual, at 8-10.

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For each 760 Accused Product, Defendants act in concert to market the product based on its infringing camera-related features and encourage end users to directly infringe by using application software pre-installed on the product or provided for installation by Defendants after purchase, where that application software necessarily infringes during use, for the reasons disclosed below in Plaintiff's Patent L.R. 3-1(c) disclosures. Defendants further act in concert to provide guidance and instruction in user guides to encourage users to perform the steps that result in direct infringement.

Contributory Infringement

Defendants infringe by contributory infringement by selling and offering for sale, and introducing into the stream of commerce into the United States, each 760 Accused Product comprising discrete and separate hardware and software components, that embody the claimed invention. They did so with knowledge of infringement, as described above. These hardware and software components, identified below in Plaintiff's Patent L.R. 3-1(c) disclosures, are a material part of the invention, and require only that an end user operate the camera software on 760 Accused Products in the manner intended by Defendants in order for infringement to occur. These components include the camera sensors, identified in Plaintiff's Patent L.R. 3-1(c) disclosures, which produce common signal data, and software components for processing signal data to produce still pictures including thumbnails and video preview images for display, and for displaying an "album" of thumbnails. These components are a material part of the claimed invention and embody the inventive aspects thereof. Discovery is ongoing, and source code has not been produced. On information and belief, the source code used to produce the software running on the Accused Products comprises specific and discrete source code file, subroutines and/or

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

functions that perform material and infringing steps of the asserted claims, including creation and reproducing of pictures as described in Plaintiff’s Patent L.R. 3-1(c) contentions. This set of components has no substantial non-infringing use, as the combination is directed specifically to performing the steps that infringe the patent.

Patent L.R. 3-1(c):

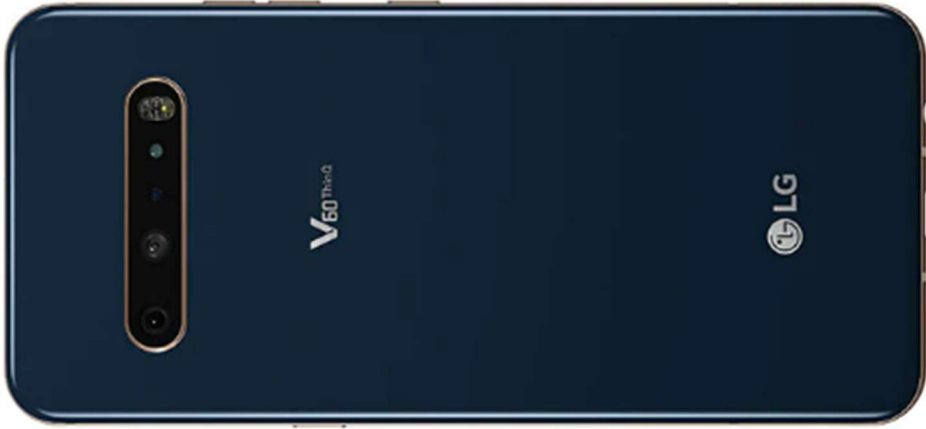
U.S. Patent No. 6,856,760	Accused Products
[4.pre] A video reproducing method, comprising:	Each of the 760 Accused Products ¹ performs a video reproducing method. See e.g., Technical Specifications of each of the 760 Accused Products available at LGE’s website showing that each of the devices is a smartphone capable of performing a video reproducing method.

¹ The 760 Accused Products are listed in the Cover Pleading for the Disclosure of Asserted Claims and Infringement Contentions (Patent L.R. 3-1) and Document Production Accompanying Disclosure (Patent L.R. 3-2).

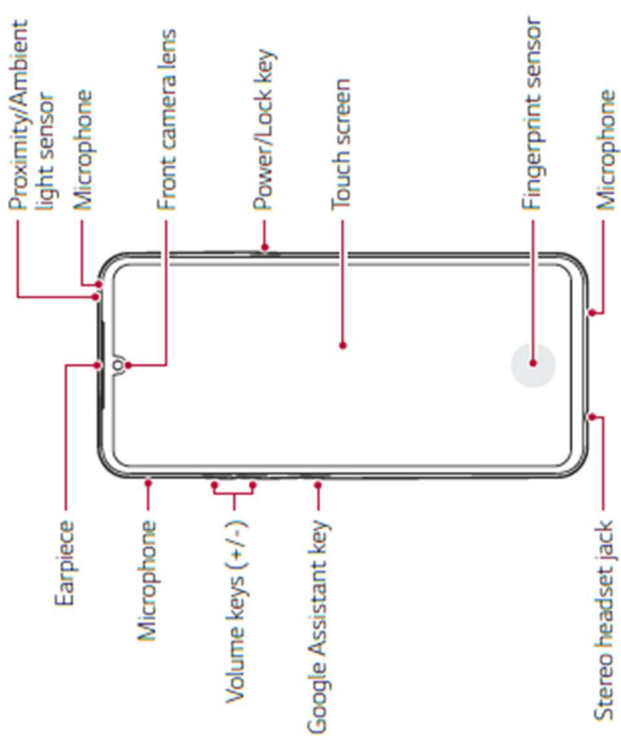
APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products	
	LG G5	https://www.lg.com/us/cell-phones/lg-VS987-Titan-g5
	LG K92 5G	https://www.lg.com/us/cell-phones/lg-lmk920tm0auc1tn-usc-k92-5g
	LG G8 ThinQ	https://www.lg.com/us/cell-phones/lg-LMG820UM1-att-g8-thing
	LG V30S ThinQ	https://www.lg.com/us/cell-phones/lg-US998R-Unlocked-Matte-v30s
	LG Q6	https://www.lg.com/us/cell-phones/lg-US700-Unlocked-q6
These technical specifications confirm that each of the 760 Accused Products performs a video reproducing method. For example, the LGV60 ThinQ 5G acts as or includes a recording medium for recording a first still picture thereon encoded by a first encoding method (e.g., JPEG).		

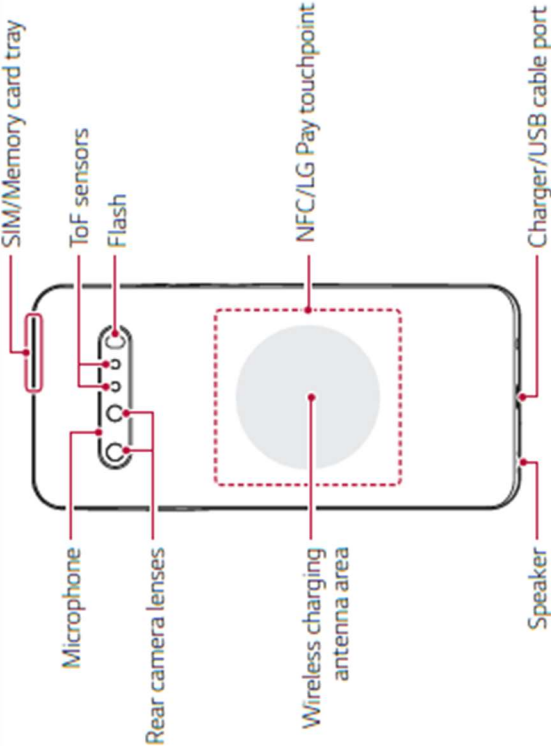
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U.S. Patent No. 6,856,760	Accused Products
	 Rear Camera Resolution 64MP (Standard Angle), 13MP (Wide Angle) Front Camera Resolution 10MP

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U.S. Patent No. 6,856,760	Accused Products
	LG V60 ThinQ 5G Technical Specifications (https://www.lg.com/us/cell-phones/lg-lmv600amaattcb-att-v60-thinq-5g)  The diagram shows a front view of the LG V60 ThinQ 5G smartphone. Various components are labeled with lines pointing to their locations on the device: - Proximity/Ambient light sensor - Microphone - Front camera lens - Power/Lock key - Touch screen - Fingerprint sensor - Microphone - Stereo headset jack - Google Assistant key - Volume keys (+/-) - Microphone - Earpiece

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U.S. Patent No. 6,856,760	Accused Products
	 The diagram shows a front view of an LG V60 ThinQ 5G smartphone. Various components are labeled with lines pointing to their locations on the device: Microphone: Located at the top left of the front face. Rear camera lenses: Located at the top center of the front face. ToF sensors: Located at the top center of the front face, below the camera lenses. Flash: Located at the top center of the front face, below the ToF sensors. Wireless charging antenna area: A dashed rectangular area on the back of the phone. NFC/LG Pay touchpoint: A circular area on the back of the phone, within the wireless charging area. Charger/USB cable port: Located at the bottom center of the front face. Speaker: Located at the bottom left of the front face. SIM/Memory card tray: Located at the top right of the back of the phone.

LG V60 ThinQ 5G User Manual, at 25.

U.S. Patent No. 6,856,760	Accused Products
	Camera You can use the Camera app to take and share photos and videos. It has many state-of-the-art features such as Time-lapse, Portrait, 3D AR Sticker, 3D Photo Effect, and much more. These features will allow you to easily and creatively capture your world. Starting the camera On the home screen, tap .  • Before taking a photo or recording a video, wipe the camera lens with a soft cloth. • Be careful not to stain the camera lens with your fingers or other foreign substance. • Images included in this user guide may be different from the actual device. • Photos and videos can be viewed or edited in Gallery. See Gallery overview for details. Changing the camera mode You can select a camera mode that suits your environment to take a photo or record a video easily and conveniently. On the home screen, tap  then swipe left or right over the camera mode area to select the desired mode.  Camera modes To rearrange the camera modes, tap  (located at the end of the mode options). LG V60 ThinQ 5G User Manual, at 79.

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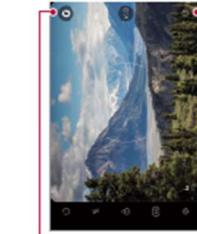
U.S. Patent No. 6,856,760	Accused Products
	Manual camera mode You can create professional level photos by using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options. 1 On the home screen, tap . 2 Select More by swiping camera modes, then tap . 3 Customize the following camera settings. • If you set Auto for options, the options are automatically adjusted according to the shooting target and environment. • If the Focus peaking option is set, the focused area is highlighted in color. This feature is available only in Manual Focus (MF) mode.

U.S. Patent No. 6,856,760

Accused Products

Displays the various Graphy options.

Reset the settings.



Adjust shutter speed.

Adjust ISO speed.

Adjust brightness.

Adjust focus.

Adjust white balance.

4 Tap  to take the photo.



- If you tap , a list of recommended photos with various settings will appear.
- Selecting the Graphy effects allows you to shoot using the white balance, shutter speed, and ISO setting values applied to the recommended photo.

Customizing the camera options

You can customize a variety of camera options to suit your preferences. Tap  on the screen.

SAVE OPTIONS	Photo size	Allows you to choose the photo size and resolution.
	Save as RAW	The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.
	Ultra wide shot distortion correction	Corrects the screen distortion when taking ultra wide-angle photos.

LG V60 ThinQ 5G User Manual, at 87-88.

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U.S. Patent No. 6,856,760	Accused Products
	The LG V60 ThinQ 5G stores captured image data at least in <u>/LGE LM-V600/DCIM/Camera</u> where each captured file is listed according to its filename, for example as an MP4 file. The <u>/LGE LM-V600/DCIM/Camera</u> can be accessed by using the Files Application to navigate from folder to subfolder. The devices also display a small image or thumbnail for each image file listed in <u>/LGE LM-V600/DCIM/Camera</u>. By touching the screen at the location where a small image or thumbnail is displayed after navigating to <u>/LGE LM-V600/DCIM/Camera</u>, the corresponding image is displayed by the devices. <i>See e.g.:</i>

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U.S. Patent No. 6,856,760	Accused Products
	Camera LGE LM-V600 > DCIM > Camera Images This week Audio V FILES IN CAMERA  20220616_105357.jpg Jun 16, 4.70 MB, JPG image  20220616_105604.mp4 Jun 16, 17.56 MB, MP4 video  20220616_113251.jpg Jun 16, 4.61 MB, JPG image  20220616_150528.mp4 Jun 16, 86.29 MB, MP4 video  20220616_150758.mp4 Jun 16, 12.53 MB, MP4 video  20220616_151206.jpg Jun 16, 1.23 MB, JPG image  20220617_162516.jpg Jun 17, 1.21 MB, JPG image  20220617_170823.jpg Jun 17, 3.47 MB, JPG image  20220617_170909.jpg Jun 17, 3.36 MB, JPG image  20220617_170910.jpg

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U.S. Patent No. 6,856,760	Accused Products
	As another example, the LG G7 ThinQ acts as or includes a recording medium for recording a first still picture thereon encoded by a first encoding methods (e.g., JPEG).  KEY FEATURES • Boombox Speaker • Super Bright Display • Super Bright Camera • AI CAM • Super Far Field Voice Recognition • DTS:X 3D Surround Sound

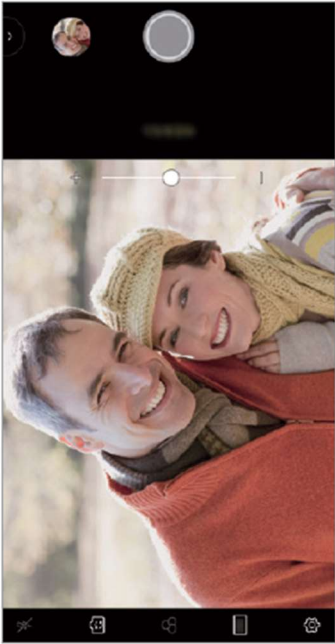
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U.S. Patent No. 6,856,760		Accused Products			
CAMERA		*	Compared to the LG G6®.	**	Not available with some camcorder settings.
		10-bit HDR Image Sensor	Captures up to 211% more colors for improved accuracy	16 MP Standard-Angle Lens f/1.6	Included
		16 MP Wide-Angle Lens f/1.9 with LED Flash	Included	4K Video Recording	At 30 FPS
		8 MP Lens	f/1.9	AI Cam	Suggests the optimal effect and angle by automatically identifying what's in the shot
		Auto Shot	Take a selfie with automatic face detection	Beauty Shot	Softens facial features
		Camera Modes	Auto, Manual Photo, Manual Video, Cine Video, Food, Slo-mo, Panorama and Flash Jump-Cut	Camera Stickers (2D/3D)	Personalize photos with a variety of pre-loaded stickers
		Cine Effect	Choose from 16 different color grading presets to add a cinematic look	Field of view	71°
		Film Effect	Choose from 17 preset filters	Full HD Video Recording	Video Recording
		Glass Camera Lens	Minimizes light dispersion for superior sharpness and color	Google Lens	Identifies text and real-life objects to instantly search Google® for information, reviews on the product or shop for the best price, also features QR Code reader option
		Graphy 2.0	Select reference photos that automatically adjust Manual Mode settings	Gesture Interval Shot	Take four selfies in sequence by making a fist twice
		Gesture Shot	Take a selfie with a simple hand gesture	Gesture View	Transitions between camera mode and preview mode automatically

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U.S. Patent No. 6,856,760	Accused Products			
	Gesture Shot	Take a selfie with a simple hand gesture	Gesture View	Transitions between camera mode and preview mode automatically
	HDR (High Dynamic Range)	Controls contrast for photos	HD 240 FPS	Slow Motion Video Recording
	HDR10 Video Recording	Life-like footage with a wider spectrum of colors that are richer and more accurate, and greater contrast between light and dark.*	Image sensor	1/3.1"
	Laser Auto Focus	Included	Live Photo	Captures 3 total seconds as a picture is taken for a short video clip with motion and sound
	LG-Cine Log	When in Manual Mode, capture 211% wider color gamut (Rec.2020) for enhanced video	Manual Mode	Adjust shutter speed, ISO, exposure, white balance, and more; save image as RAW (JPEG + DNG)
	OIS+ and EIS	Included	Portrait Mode	Adjust background blur against a subject in focus
	Point Zoom	Zoom in on any selected area within the frame for more stability and control	Quick Share	Access sharing platforms instantly after taking pictures and videos
	Resolution	Up to 3840 x 2160 pixels (1920 x 1080 default)	Square Camera	1:1 camera UI; includes Snap Shot, Match Shot, Grid Shot, and Guide Shot
	Super Bright Camera	Captures photos and videos that are four times as bright ¹ in low light by combining 4 pixels into 1 super pixel	Selfie Light	Whole screen illuminates while a photo is taken for well-lit selfies
	Steady Record 2.0	Record smoother clearer videos on the move	Time-Lapse Video	Record a video that plays back faster than normal
	Video Manual Mode	Adjust audio focus, manual focus, white balance, frame rates, and more	Video Studio	Merge up to 50 photos or videos, trim and add title/ text, background music, and theme effect overlays
	Wide-angle field of view	80°	Zoom	Up to 8x
	LG G7 ThinQ Technical Specifications (https://www.lg.com/us/cell-phones/lg-lgg710pm)			

U.S. Patent No. 6,856,760	Accused Products
	Camera features Wide-angle camera You can take photos or record videos with a wider range than your actual field of vision by using the wide-angle on the rear camera. Tap  > , then tap  /  to switch between the standard and wide-angle. Standard angle Wide-angle  Rear camera LG G7 ThinQ User Manual, at 6.

U.S. Patent No. 6,856,760	Accused Products
	Portrait You can take a sharp portrait by applying the camera lens blur effect. 1 Tap , then tap Portrait. 2 Tap  to take a photo. • To adjust blur strength, drag the slide bar up, down, left or right (depending on the orientation of the phone).   • Keep the distance to your subject within 1.3 ~ 5.0 feet when using the rear camera. • This feature is not available if the surroundings are too dark. • After applying this feature, touch and hold the desired position on the preview screen to automatically apply the exposure value and focus. In this case, the Portrait feature and blur strength stay the same.

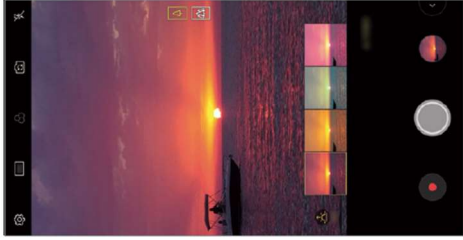
AI CAM

You can use the AI Cam feature to automatically recognize the object when taking a photo or recording a video for an optimal quality.

- 1 Tap **O >**, then tap **AI CAM**.
- 2 When the object is recognized, the best effect for the scene is applied.
 - To apply other effects, tap the scene icon.
 - A total of 19 categories, such as portrait, pets, food, food, sunrise, sunset, scenery, city view, flowers, babies, sky, beach, etc, can be recognized automatically.



Portrait



Sunset



Flower

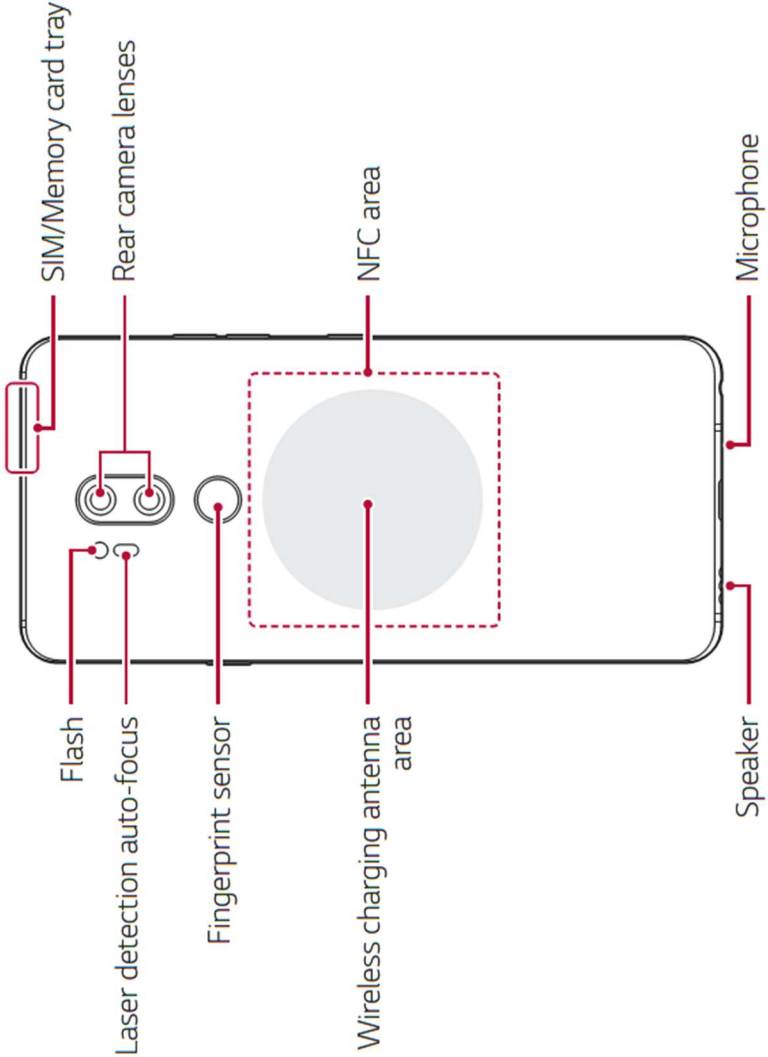


- The result of the scene recognition may differ depending on the illumination or the location of the subject while taking photos. Keywords do not appear on the actual photos or videos.
- This feature is available only when the front and rear cameras are in the Auto mode.

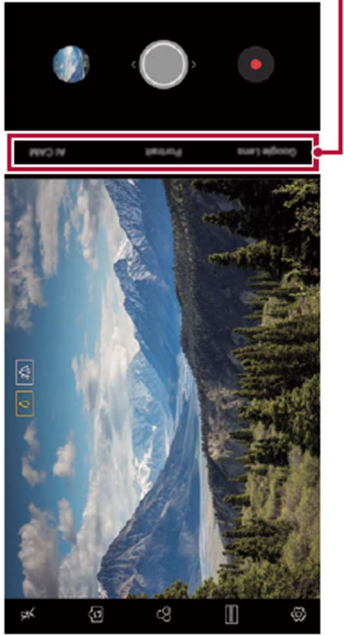
	Cine shot You can record a moment and make a video with only a part of the scene in motion. While recording a video, hold the device steady. After recorded, rub the area in the video you want in motion. The selected area starts moving and the rest of the video remains still. 1 Tap , then tap MODE > Cine shot . 2 Tap  to record a 3 second video. • Hold the device steady while recording the video. 3 Tap  and rub the area you want in motion with the cine shot effect.  • Tap  to erase the selected area. • Tap  to play the selected area in motion forward repeatedly. • Tap  to play the selected area in motion forward and backward repeatedly. 4 Tap SAVE. • The selected area will be in motion.
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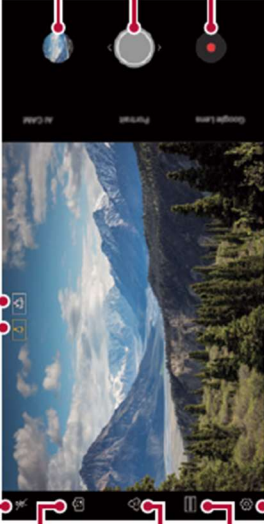
U.S. Patent No. 6,856,760	Accused Products
	LG G7 ThinQ User Manual, at 8-10. Parts overview LED lamp Proximity/Ambient light sensor Volume keys (+/-) Google Assistant key Microphone Earpiece Front camera lens Power/Lock key Touch screen Stereo headset jack Charger/USB cable port

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	 The diagram shows a top-down view of an LG G7 ThinQ smartphone. Red lines with dots at the end point to specific components on the phone. The components are: 'Flash' (top left), 'Laser detection auto-focus' (top left, below flash), 'SIM/Memory card tray' (top right), 'Rear camera lenses' (top right, below SIM tray), 'Fingerprint sensor' (center left), 'Wireless charging antenna area' (center, indicated by a dashed red rectangle), 'NFC area' (center, indicated by a dashed red rectangle), 'Speaker' (bottom left), and 'Microphone' (bottom right). LG G7 ThinQ User Manual, at 46.

U.S. Patent No. 6,856,760	Accused Products
	Camera Starting the camera You can take a photo or record a video to cherish all of your memorable moments. Tap  > .  • Before taking a photo or recording a video, wipe the camera lens with a soft cloth. • Be careful not to stain the camera lens with your fingers or other foreign substance. • Images included in this user guide may be different from the actual device. • Photos and videos can be viewed or edited in Gallery. See Gallery overview for details.

U.S. Patent No. 6,856,760	Accused Products
	Changing the camera mode You can select a camera mode that suits your environment to take a photo or record a video easily and conveniently. Tap , then swipe left or right over the camera mode area to select the desired mode. 

U.S. Patent No. 6,856,760	Accused Products
	Auto mode You can take photos or record videos by selecting a variety of camera modes and options. 1 Tap , then tap MODE > Auto . 2 To take a photo, tap . To record a video, tap .  Turn the flash on or off. Switch between front and rear cameras. Apply a film filter effect. Select a camera mode. Change the camera options. Switch between the wide-angle camera and standard camera. Open Gallery. Take photos. Record videos.

U.S. Patent No. 6,856,760	Accused Products
	Taking a photo 1 Select a camera mode and tap the subject to focus the camera on. 2 Tap  to take a photo. • You can also press the Volume Down or Volume Up key to take a photo.  • When the screen is turned off or locked, start the camera by pressing the Power or Volume Down key twice. Tap  > Settings > General > Shortcuts and enable Open Camera under POWER and/or VOLUME to use this feature. Customizing the camera options You can customize a variety of camera options to suit your preferences. Tap  on the screen.

 - Available options vary depending on the selected camera (front or rear camera) and the selected camera mode.  : Take a photo in FullVision (18:9:9 aspect ratio).  : Select values for aspect ratio and size for taking photos.  : Select values for resolution and size for recording videos.  : Set the timer to automatically take photos or record videos after a specified period of time.	
Super Bright Camera	Take brighter, sharper photos in low illuminance conditions. (When the Super Bright Camera mode is selected, it automatically turns on or off depending on the surrounding light conditions.)
HDR	Obtain photos in vivid colors and get compensated effects even when they are taken against the light. These functions are provided by the High Dynamic Range (HDR) technology equipped in the camera.
Steady recording	Minimizes motion blur while recording a video.
Live photo	Record the action before and after you take a photo.
Cheese shutter	Take photos with voice commands.
Tag locations	Save the image with GPS location data.
Grid	Displays guide grids so that you can take photos or record videos based on the horizontal and vertical reference lines.
Add signature	Displays a personalized signature on the photos.
Storage	Select if you want to store the pictures and videos in the Internal storage or SD card. (Available when a memory card is inserted.)
Help	Provides help information for each camera menu.

U.S. Patent No. 6,856,760	Accused Products
	LG G7 ThinQ User Manual, at 95-98. Manual camera mode You can create professional level photos by using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options. 1 Tap , then tap MODE > Manual Camera . 2 Customize the following camera settings.  to take the photo.'"/> 3 Tap  to take the photo.

Customizing the camera options You can customize a variety of camera options to suit your preferences. Tap  on the screen.  : Take a photo in FullVision (18.9:9 aspect ratio).  : Select values for aspect ratio and size for taking photos.  : Set the timer to automatically take photos after a specified period of time.	
Graphy photos	Adjust the white balance, ISO and shutter speed for the recommended photo. See <i>Graphy</i> for details.
Save as RAW	The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.
Cheese shutter	Take photos with voice commands.
Tag locations	Save the image with GPS location data.
Guide	Displays guide grids so that you can take photos based on the horizontal and vertical reference lines.
Add signature	Displays a personalized signature on the photos.
Storage	Select if you want to store the pictures and videos in the Internal storage or SD card. (Available when a memory card is inserted.)
Help	Provides help information for each camera menu.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products				
	LG G7 ThinQ User Manual, at 102-103. The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry that differs only in ways that are immaterial to the limitation. <i>See</i> Appendix 10 identifying, for each of the remaining 760 Accused Products, the processing circuitry that implements the video reproducing method.				
[4.a] reproducing at least a first still picture, a second still picture and a picture from a recording medium,	Each of the 760 Accused Products performs the step of reproducing at least a first still picture, a second still picture and a picture from a recording medium. <i>See e.g.</i>, Technical Specifications of each of the 760 Accused Products available at LGE’s website showing that each of the devices reproduces at least a first still picture, a second still picture and a picture from a recording medium). For example, the LG V60 ThinQ 5G includes a recording medium. <table><tr><td>Memory</td><td>8GB RAM</td></tr><tr><td>Storage</td><td>128 GB (up to 99 GB usable)*</td></tr></table> LG V60 ThinQ 5G Technical Specifications (https://www.lg.com/us/cell-phones/lg-lmv600amaattcb-att-v60-thinq-5g)	Memory	8GB RAM	Storage	128 GB (up to 99 GB usable)*
Memory	8GB RAM				
Storage	128 GB (up to 99 GB usable)*				

U.S. Patent No. 6,856,760	Accused Products
	Storage You can view and manage internal storage on the device or storage space of the memory card. 1 On the settings screen, tap Storage. 2 Customize the following settings: • Internal storage: View the total storage space and free space in the device's internal storage. View a list of apps in use and the storage capacity for each app. • SD card: View the total storage space and free space in the memory card. This option appears only when a memory card is inserted. To unmount the memory card, tap . LG V60 ThinQ 5G User Manual, at 151. Memory You can view the average amount of memory usage over a certain period of time and the memory occupied by an app. 1 On the settings screen, tap System > Memory. 2 Tap  to set a time slot to retrieve data. LG V60 ThinQ 5G User Manual, at 153. As another example, the LG G7 ThinQ includes a recording medium.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	Internal Memory 64 GB (47.89 GB usable)*** RAM 4 GB Supports microSD card Up to 2 TB (cards sold separately) LG G7 ThinQ Technical Specifications (https://www.lg.com/us/cell-phones/lg-lgg710pm) Storage You can view and manage internal storage on the device or storage space of the memory card. 1 On the settings screen, tap General > Storage. 2 Customize the following settings: • Internal storage: View the total storage space and free space in the device's internal storage. View a list of apps in use and the storage capacity for each app. LG G7 ThinQ User Manual, at 147. Memory You can view the average amount of memory usage over a certain period of time and the memory occupied by an app. 1 On the settings screen, tap General > Memory. 2 Tap ▼ to set a time slot to retrieve data. LG G7 ThinQ User Manual, at 154.

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products
	For example, the LG V60 ThinQ 5G stores captured image data at least in <u>/LGE LM-V600/DCIM/Camera</u> where each captured file is listed according to its filename, for example as an MP4 file. The <u>/LGE LM-V600/DCIM/Camera</u> can be accessed by using the Files Application to navigate from folder to subfolder. The devices also display a small image or thumbnail for each image file listed in <u>/LGE LM-V600/DCIM/Camera</u>. By touching the screen at the location where a small image or thumbnail is displayed after navigating to <u>/LGE LM-V600/DCIM/Camera</u>, the corresponding image is displayed by the devices. <i>See e.g.:</i>

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	Camera Q LGE LM-V600 > DCIM > Camera Images This week Audio V FILES IN CAMERA  20220616_105357.jpg Jun 16, 4.70 MB, JPG image  20220616_105604.mp4 Jun 16, 17.56 MB, MP4 video  20220616_113251.jpg Jun 16, 4.61 MB, JPG image  20220616_150528.mp4 Jun 16, 86.29 MB, MP4 video  20220616_150758.mp4 Jun 16, 12.53 MB, MP4 video  20220616_151206.jpg Jun 16, 1.23 MB, JPG image  20220617_162516.jpg Jun 17, 1.21 MB, JPG image  20220617_170823.jpg Jun 17, 3.47 MB, JPG image  20220617_170909.jpg Jun 17, 3.36 MB, JPG image  20220617_170910.jpg As another example, the LG G7 ThinQ stores captured image data at least in <u>Internal Storage/DCIM/Camera</u> where each captured file is listed according to its filename, for example as an MP4 file. The <u>Internal Storage/DCIM/Camera</u> can be accessed by using the Files Application to navigate from folder to subfolder. The devices also display a small image or thumbnail for each image file listed in <u>Internal Storage/DCIM/Camera</u>. By touching the screen at the location where a small image or

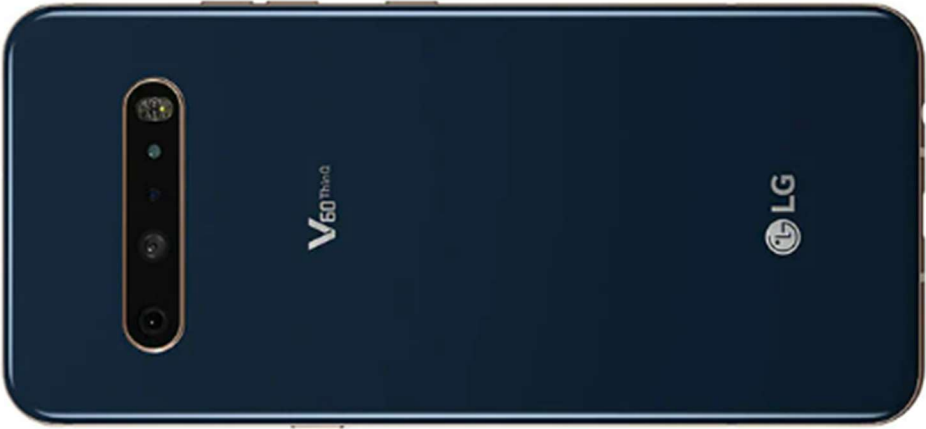
APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	thumbnail is displayed after navigating to <u>/Internal Storage/DCIM/Camera</u>, the corresponding image is displayed by the devices. <i>See e.g.</i>:  The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry, storage which performs the function of a recording medium, and

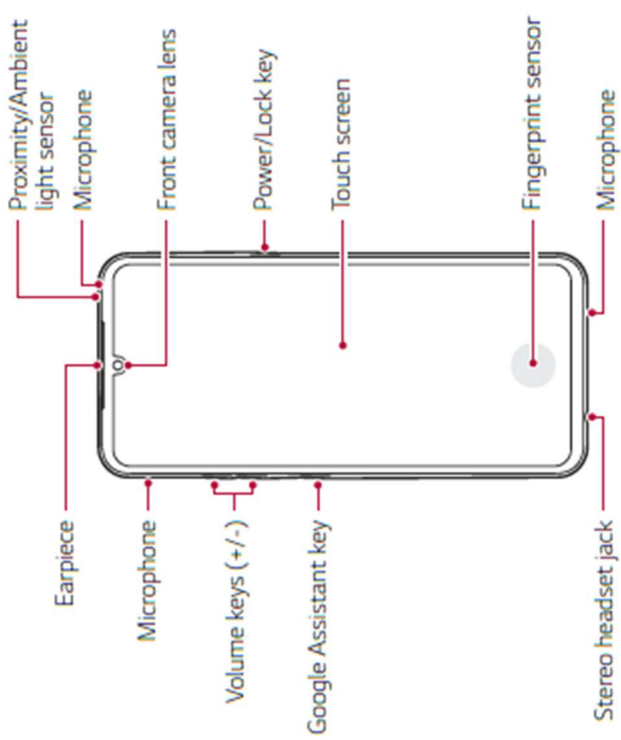
**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products
	software that differs only in ways that are immaterial to the limitation. <i>See</i> Appendix 10 identifying, for each of the remaining 760 Accused Products, the processing circuitry, storage (such as flash memory) and operating system software that reproduces a first still picture and a second still picture, and a picture from data stored on a recording medium. <u>Doctrine of Equivalents</u> To the extent LGE argues that this limitation is not literally met in any 760 Accused Product, pursuant to P.R. 3-1(d) Maxell asserts that this limitation is met under the doctrine of equivalents because the identified structure matches the function, way, and result of the claimed element and, to the extent there is a difference, the difference is insubstantial. For example, to the extent that LGE argues that the 760 Accused Products do not reproduce images, each of these products include software, hardware, or a combination of the two that perform the equivalent function of reproducing images. Using this software, hardware, or combination of the two, these products perform substantially the same function of producing and displaying multiple images in substantially the same way as claimed, by processing image data stored in a recording medium. The performance of this function achieves substantially the same result, for example, reproducing the images stored on the recording medium, including two still pictures encoded in different ways, and a picture.
[4.b] wherein said first still picture is encoded by a first encoding method,	Each of the 760 Accused Products reproduces a first still picture that is encoded by a first encoding methods. <i>See e.g.</i>, Technical Specifications of each of the 760 Accused Products available at LGE's and wireless carrier websites (showing that these devices are smartphones that include a camera that takes images in a first format (e.g., JPEG)). For example, the LGV60 ThinQ 5G reproduces a first still picture that is encoded by a first encoding methods (e.g., JPEG).

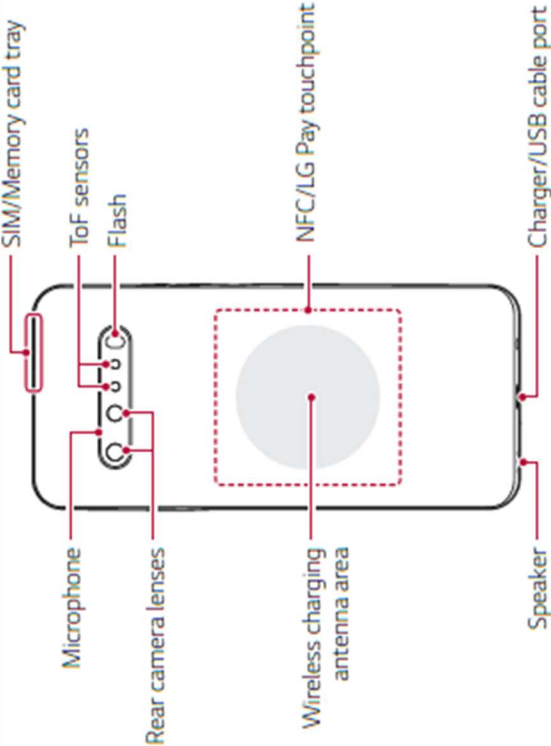
**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products				
	 <table data-bbox="1242 266 1356 1383"><tr><td data-bbox="1242 1058 1279 1383">Rear Camera Resolution</td><td data-bbox="1242 266 1279 821">64MP (Standard Angle), 13MP (Wide Angle)</td></tr><tr><td data-bbox="1320 1058 1356 1383">Front Camera Resolution</td><td data-bbox="1320 737 1356 821">10MP</td></tr></table>	Rear Camera Resolution	64MP (Standard Angle), 13MP (Wide Angle)	Front Camera Resolution	10MP
Rear Camera Resolution	64MP (Standard Angle), 13MP (Wide Angle)				
Front Camera Resolution	10MP				

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	LG V60 ThinQ 5G Technical Specifications (https://www.lg.com/us/cell-phones/lg-lmv600amaattcb-att-v60-thinq-5g)  The diagram shows a front view of the LG V60 ThinQ 5G smartphone. Various components are labeled with lines pointing to their locations on the device: - Proximity/Ambient light sensor - Microphone - Front camera lens - Power/Lock key - Touch screen - Fingerprint sensor - Microphone - Stereo headset jack - Google Assistant key - Volume keys (+/-) - Microphone - Earpiece

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	 The diagram shows a front view of an LG V60 ThinQ 5G smartphone. Various components are labeled with lines pointing to their locations on the device: Microphone: Located at the top left of the front face. Rear camera lenses: Located at the top center of the back face. ToF sensors: Located at the top right of the back face. Flash: Located at the top right of the back face, below the ToF sensors. Wireless charging antenna area: A circular area on the back face, indicated by a dashed red line. NFC/LG Pay touchpoint: A small circular area on the back face, indicated by a dashed red line. Charger/USB cable port: Located at the bottom center of the front face. Speaker: Located at the bottom left of the front face. SIM/Memory card tray: Located at the top left of the back face.

LG V60 ThinQ 5G User Manual, at 25.

U.S. Patent No. 6,856,760	Accused Products
	Camera You can use the Camera app to take and share photos and videos. It has many state-of-the-art features such as Time-lapse, Portrait, 3D AR Sticker, 3D Photo Effect, and much more. These features will allow you to easily and creatively capture your world. Starting the camera On the home screen, tap .  • Before taking a photo or recording a video, wipe the camera lens with a soft cloth. • Be careful not to stain the camera lens with your fingers or other foreign substance. • Images included in this user guide may be different from the actual device. • Photos and videos can be viewed or edited in Gallery. See Gallery overview for details. Changing the camera mode You can select a camera mode that suits your environment to take a photo or record a video easily and conveniently. On the home screen, tap  then swipe left or right over the camera mode area to select the desired mode.  Camera modes To rearrange the camera modes, tap  (located at the end of the mode options). LG V60 ThinQ 5G User Manual, at 79.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

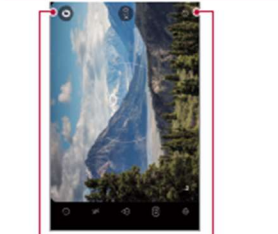
U.S. Patent No. 6,856,760	Accused Products
	Manual camera mode You can create professional level photos by using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options. 1 On the home screen, tap . 2 Select More by swiping camera modes, then tap . 3 Customize the following camera settings. • If you set Auto for options, the options are automatically adjusted according to the shooting target and environment. • If the Focus peaking option is set, the focused area is highlighted in color. This feature is available only in Manual Focus (MF) mode.

U.S. Patent No. 6,856,760

Accused Products

Displays the various Graphy options.

Reset the settings.



Adjust shutter speed.

Adjust ISO speed.

Adjust brightness.

Adjust focus.

Adjust white balance.

4 Tap  to take the photo.



- If you tap , a list of recommended photos with various settings will appear.
- Selecting the Graphy effects allows you to shoot using the white balance, shutter speed, and ISO setting values applied to the recommended photo.

Customizing the camera options

You can customize a variety of camera options to suit your preferences. Tap  on the screen.

SAVE OPTIONS	Photo size	Allows you to choose the photo size and resolution.
	Save as RAW	The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.
	Ultra wide shot distortion correction	Corrects the screen distortion when taking ultra wide-angle photos.

LG V60 ThinQ 5G User Manual, at 87-88.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	The LG V60 ThinQ 5G stores captured image data at least in <u>/LGE LM-V600/DCIM/Camera</u> where each captured file is listed according to its filename, for example as an MP4 file. The <u>/LGE LM-V600/DCIM/Camera</u> can be accessed by using the Files Application to navigate from folder to subfolder. The devices also display a small image or thumbnail for each image file listed in <u>/LGE LM-V600/DCIM/Camera</u>. By touching the screen at the location where a small image or thumbnail is displayed after navigating to <u>/LGE LM-V600/DCIM/Camera</u>, the corresponding image is displayed by the devices. <i>See e.g.:</i>

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	Camera LGE LM-V600 > DCIM > Camera Images This week Audio FILES IN CAMERA 20220616_105357.jpg Jun 16, 4.70 MB, JPG image 20220616_105604.mp4 Jun 16, 17.56 MB, MP4 video 20220616_113251.jpg Jun 16, 4.61 MB, JPG image 20220616_150528.mp4 Jun 16, 86.29 MB, MP4 video 20220616_150758.mp4 Jun 16, 12.53 MB, MP4 video 20220616_151206.jpg Jun 16, 1.23 MB, JPG image 20220617_162516.jpg Jun 17, 1.21 MB, JPG image 20220617_170823.jpg Jun 17, 3.47 MB, JPG image 20220617_170909.jpg Jun 17, 3.36 MB, JPG image 20220617_170910.jpg 

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	As another example, the LG G7 ThinQ reproduces a first still picture that is encoded by a first encoding methods (e.g., JPEG).  KEY FEATURES • Boombox Speaker • Super Bright Display • Super Bright Camera • AI CAM • Super Far Field Voice Recognition • DTS:X 3D Surround Sound

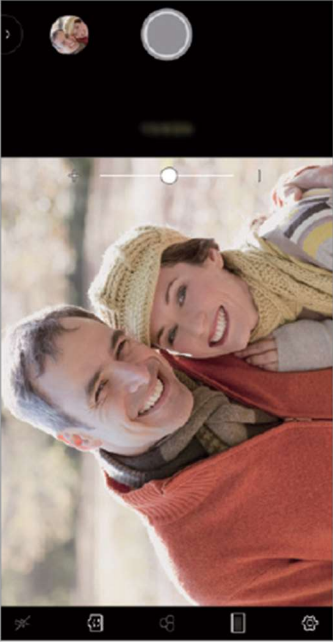
APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products			
	CAMERA			
	* Compared to the LG G6®.	**	Not available with some camcorder settings.	
	10-bit HDR Image Sensor	Captures up to 211% more colors for improved accuracy	16 MP Standard-Angle Lens f/1.6	Included
	16 MP Wide-Angle Lens f/1.9 with LED Flash	Included	4K Video Recording	At 30 FPS
	8 MP Lens	f/1.9	AI Cam	Suggests the optimal effect and angle by automatically identifying what's in the shot
	Auto Shot	Take a selfie with automatic face detection	Beauty Shot	Softens facial features
	Camera Modes	Auto, Manual Photo, Manual Video, Cine Video, Food, Slo-mo, Panorama and Flash Jump-Cut	Camera Stickers (2D/3D)	Personalize photos with a variety of pre-loaded stickers
	Cine Effect	Choose from 16 different color grading presets to add a cinematic look	Field of view	71°
	Film Effect	Choose from 17 preset filters	Full HD Video Recording	Video Recording
	Glass Camera Lens	Minimizes light dispersion for superior sharpness and color	Google Lens	Identifies text and real-life objects to instantly search Google® for information, reviews on the product or shop for the best price, also features QR Code reader option
	Graphy 2.0	Select reference photos that automatically adjust Manual Mode settings	Gesture Interval Shot	Take four selfies in sequence by making a fist twice
	Gesture Shot	Take a selfie with a simple hand gesture	Gesture View	Transitions between camera mode and preview mode automatically

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products			
	Gesture Shot	Take a selfie with a simple hand gesture	Gesture View	Transitions between camera mode and preview mode automatically
	HDR (High Dynamic Range)	Controls contrast for photos	HD 240 FPS	Slow Motion Video Recording
	HDR10 Video Recording	Life-like footage with a wider spectrum of colors that are richer and more accurate, and greater contrast between light and dark.*	Image sensor	1/3.1"
	Laser Auto Focus	Included	Live Photo	Captures 3 total seconds as a picture is taken for a short video clip with motion and sound
	LG-Cine Log	When in Manual Mode, capture 211% wider color gamut (Rec.2020) for enhanced video	Manual Mode	Adjust shutter speed, ISO, exposure, white balance, and more; save image as RAW (JPEG + DNG)
	OIS+ and EIS	Included	Portrait Mode	Adjust background blur against a subject in focus
	Point Zoom	Zoom in on any selected area within the frame for more stability and control	Quick Share	Access sharing platforms instantly after taking pictures and videos
	Resolution	Up to 3840 x 2160 pixels (1920 x 1080 default)	Square Camera	1:1 camera UI; includes Snap Shot, Match Shot, Grid Shot, and Guide Shot
	Super Bright Camera	Captures photos and videos that are four times as bright1 in low light by combining 4 pixels into 1 super pixel	Selfie Light	Whole screen illuminates while a photo is taken for well-lit selfies
	Steady Record 2.0	Record smoother clearer videos on the move	Time-Lapse Video	Record a video that plays back faster than normal
	Video Manual Mode	Adjust audio focus, manual focus, white balance, frame rates, and more	Video Studio	Merge up to 50 photos or videos, trim and add title/ text, background music, and theme effect overlays
	Wide-angle field of view	80°	Zoom	Up to 8x
LG G7 ThinQ Technical Specifications (https://www.lg.com/us/cell-phones/lg-lgg710pm)				

U.S. Patent No. 6,856,760	Accused Products
	Camera features Wide-angle camera You can take photos or record videos with a wider range than your actual field of vision by using the wide-angle on the rear camera. Tap  > , then tap  /  to switch between the standard and wide-angle. Standard angle Wide-angle  Rear camera LG G7 ThinQ User Manual, at 6.

U.S. Patent No. 6,856,760	Accused Products
	Portrait You can take a sharp portrait by applying the camera lens blur effect. 1 Tap , then tap Portrait. 2 Tap  to take a photo. • To adjust blur strength, drag the slide bar up, down, left or right (depending on the orientation of the phone). 
	 • Keep the distance to your subject within 1.3 ~ 5.0 feet when using the rear camera. • This feature is not available if the surroundings are too dark. • After applying this feature, touch and hold the desired position on the preview screen to automatically apply the exposure value and focus. In this case, the Portrait feature and blur strength stay the same.

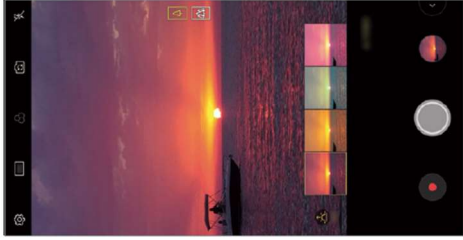
AI CAM

You can use the AI Cam feature to automatically recognize the object when taking a photo or recording a video for an optimal quality.

- 1 Tap **O >**, then tap **AI CAM**.
- 2 When the object is recognized, the best effect for the scene is applied.
 - To apply other effects, tap the scene icon.
 - A total of 19 categories, such as portrait, pets, food, food, sunrise, sunset, scenery, city view, flowers, babies, sky, beach, etc, can be recognized automatically.



Portrait



Sunset

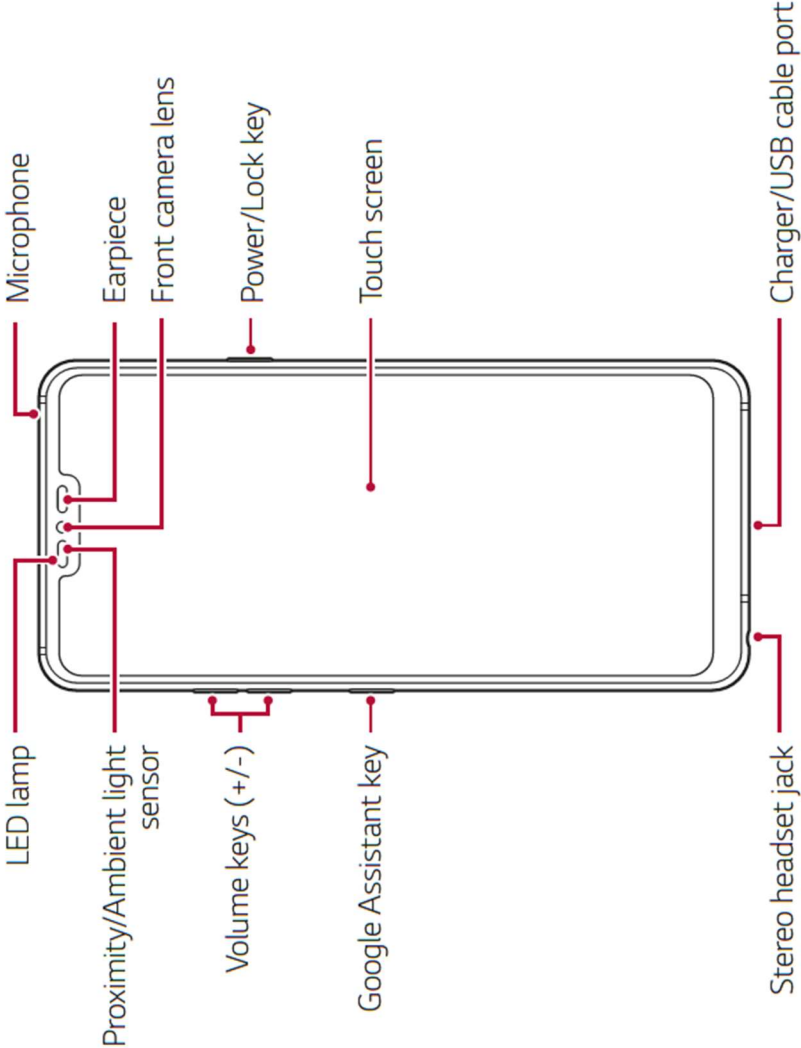


Flower

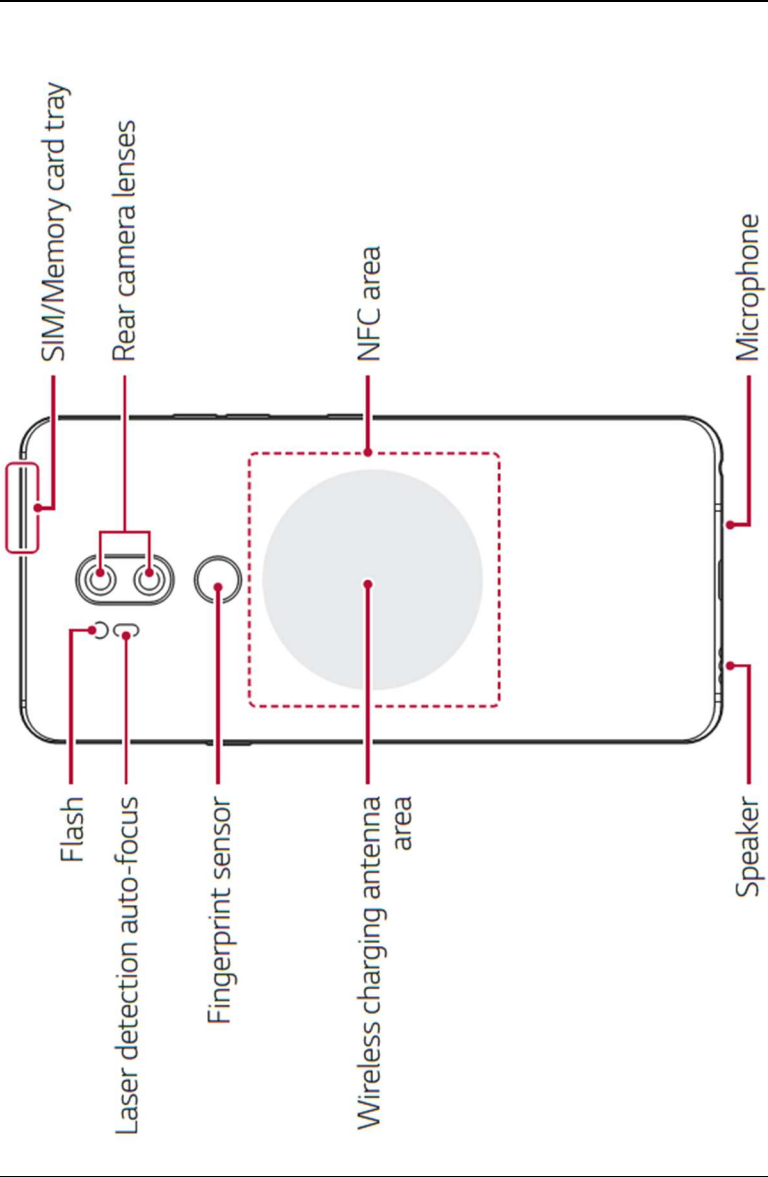


- The result of the scene recognition may differ depending on the illumination or the location of the subject while taking photos. Keywords do not appear on the actual photos or videos.
- This feature is available only when the front and rear cameras are in the Auto mode.

	Cine shot You can record a moment and make a video with only a part of the scene in motion. While recording a video, hold the device steady. After recorded, rub the area in the video you want in motion. The selected area starts moving and the rest of the video remains still. 1 Tap , then tap MODE > Cine shot . 2 Tap  to record a 3 second video. • Hold the device steady while recording the video. 3 Tap  and rub the area you want in motion with the cine shot effect.  • Tap  to erase the selected area. • Tap  to play the selected area in motion forward repeatedly. • Tap  to play the selected area in motion forward and backward repeatedly. 4 Tap SAVE. • The selected area will be in motion.
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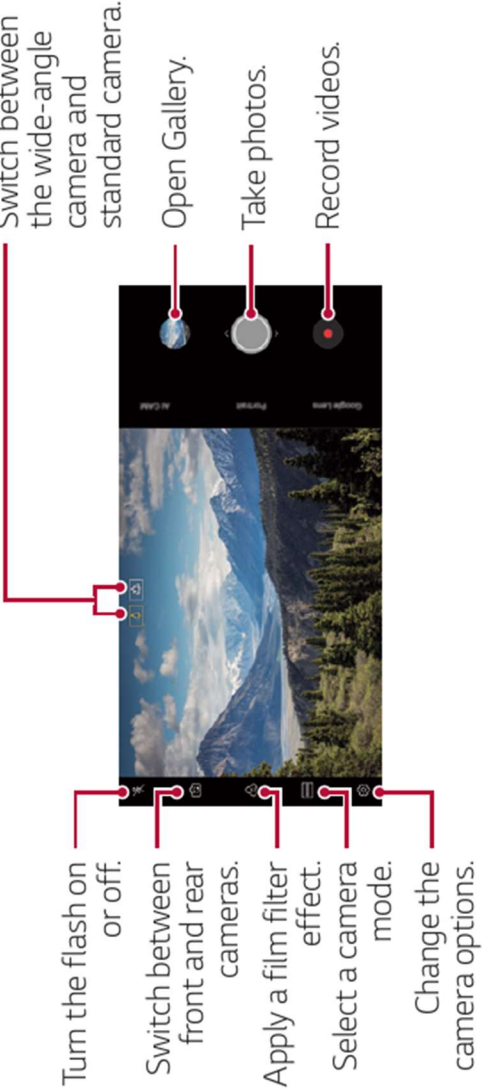
U.S. Patent No. 6,856,760	Accused Products
	LG G7 ThinQ User Manual, at 8-10. Parts overview  The diagram shows a front view of the LG G7 ThinQ smartphone. Red lines connect labels to specific parts of the device. The labels and their corresponding parts are: LED lamp (top left), Proximity/Ambient light sensor (top left, below LED lamp), Volume keys (+/-) (left side), Google Assistant key (bottom left), Microphone (top center), Earpiece (top center, below microphone), Front camera lens (top center, below earpiece), Power/Lock key (top center, below front camera lens), Touch screen (center), Stereo headset jack (bottom left), and Charger/USB cable port (bottom right).

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	 LG G7 ThinQ User Manual, at 46.

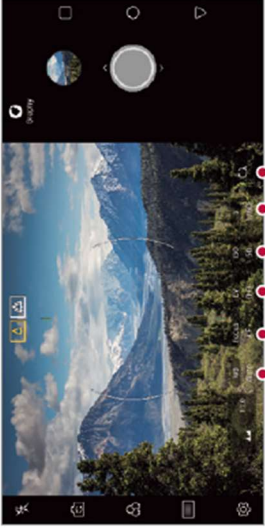
U.S. Patent No. 6,856,760	Accused Products
	Camera Starting the camera You can take a photo or record a video to cherish all of your memorable moments. Tap  > .  • Before taking a photo or recording a video, wipe the camera lens with a soft cloth. • Be careful not to stain the camera lens with your fingers or other foreign substance. • Images included in this user guide may be different from the actual device. • Photos and videos can be viewed or edited in Gallery. See Gallery overview for details.

U.S. Patent No. 6,856,760	Accused Products
	Changing the camera mode You can select a camera mode that suits your environment to take a photo or record a video easily and conveniently. Tap , then swipe left or right over the camera mode area to select the desired mode. 

U.S. Patent No. 6,856,760	Accused Products
	Auto mode You can take photos or record videos by selecting a variety of camera modes and options. 1 Tap , then tap MODE > Auto . 2 To take a photo, tap . To record a video, tap . 

U.S. Patent No. 6,856,760	Accused Products
	Taking a photo 1 Select a camera mode and tap the subject to focus the camera on. 2 Tap  to take a photo. • You can also press the Volume Down or Volume Up key to take a photo.  • When the screen is turned off or locked, start the camera by pressing the Power or Volume Down key twice. Tap  > Settings > General > Shortcuts and enable Open Camera under POWER and/or VOLUME to use this feature. Customizing the camera options You can customize a variety of camera options to suit your preferences. Tap  on the screen.

 • Available options vary depending on the selected camera (front or rear camera) and the selected camera mode. •  : Take a photo in FullVision (18:9:9 aspect ratio). •  : Select values for aspect ratio and size for taking photos. •  : Select values for resolution and size for recording videos. •  : Set the timer to automatically take photos or record videos after a specified period of time.	
Super Bright Camera	Take brighter, sharper photos in low illuminance conditions. (When the Super Bright Camera mode is selected, it automatically turns on or off depending on the surrounding light conditions.)
HDR	Obtain photos in vivid colors and get compensated effects even when they are taken against the light. These functions are provided by the High Dynamic Range (HDR) technology equipped in the camera.
Steady recording	Minimizes motion blur while recording a video.
Live photo	Record the action before and after you take a photo.
Cheese shutter	Take photos with voice commands.
Tag locations	Save the image with GPS location data.
Grid	Displays guide grids so that you can take photos or record videos based on the horizontal and vertical reference lines.
Add signature	Displays a personalized signature on the photos.
Storage	Select if you want to store the pictures and videos in the Internal storage or SD card. (Available when a memory card is inserted.)
Help	Provides help information for each camera menu.

U.S. Patent No. 6,856,760	Accused Products
	LG G7 ThinQ User Manual, at 95-98. Manual camera mode You can create professional level photos by using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options. 1 Tap , then tap MODE > Manual Camera . 2 Customize the following camera settings.  3 Tap  to take the photo.

Customizing the camera options You can customize a variety of camera options to suit your preferences. Tap  on the screen. •  : Take a photo in FullVision (18.9:9 aspect ratio). •  : Select values for aspect ratio and size for taking photos. •  : Set the timer to automatically take photos after a specified period of time.	
Graphy photos	Adjust the white balance, ISO and shutter speed for the recommended photo. See <i>Graphy</i> for details.
Save as RAW	The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.
Cheese shutter	Take photos with voice commands.
Tag locations	Save the image with GPS location data.
Guide	Displays guide grids so that you can take photos based on the horizontal and vertical reference lines.
Add signature	Displays a personalized signature on the photos.
Storage	Select if you want to store the pictures and videos in the Internal storage or SD card. (Available when a memory card is inserted.)
Help	Provides help information for each camera menu.

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products
	LG G7 ThinQ User Manual, at 102-103. The LG G7 ThinQ stores captured image data at least in <u>/Internal Storage/DCIM/Camera</u> where each captured file is listed according to its filename, for example as an MP4 file. The <u>/ Internal Storage /DCIM/Camera</u> can be accessed by using the Files Application to navigate from folder to subfolder. The devices also display a small image or thumbnail for each image file listed in <u>/ Internal Storage /DCIM/Camera</u>. By touching the screen at the location where a small image or thumbnail is displayed after navigating to <u>/Internal Storage/DCIM/Camera</u>, the corresponding image is displayed by the devices. <i>See e.g.:</i>

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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U.S. Patent No. 6,856,760	Accused Products
	

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	 The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry and software that differs only in ways that are immaterial to the limitation. <i>See</i> Appendix 10 identifying, for each of the remaining 760 Accused Products, the processing circuitry and operating system software that encodes still pictures by a first encoding method such as jpeg. <u>Doctrine of Equivalence</u> To the extent LGE argues that this limitation is not literally met in any 760 Accused Product, pursuant to P.R. 3-1(d) Maxell asserts that this limitation is met under the doctrine of equivalents because the identified structure matches the function, way, and result of the claimed element and, to the extent there is a difference, the difference is insubstantial. For example, to the extent that LGE argues that the 760 Accused Products do not encode images, each of these products include software, hardware, or a combination of the two that perform the equivalent function of encoding images using an encoding method. Using this software, hardware, or combination of the two, these products perform substantially the same function of providing a format for storage of the picture data in substantially the same way as claimed, by application of a pre-defined

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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U.S. Patent No. 6,856,760	Accused Products
[4.c] said second still picture is encoded by a second encoding method different from the first encoding method, and	algorithm. The performance of this function achieves substantially the same result, for example, encoding images such that they are stored using a predefined algorithm in such a manner that a predefined algorithm can decode them. Each of the 760 Accused Products reproduces a second still picture encoded by a second encoding method different from the first encoding method. <i>See e.g.</i>, Technical Specifications of each of the 760 Accused Products available at LGE's and wireless carrier websites (showing that these devices reproduce a second still picture encoded by a second encoding method different from the first encoding method). For example, the 760 Accused Products record images in RAW format: Camera picture taking file format options  Function ► RAW: Select this option to save the image in both RAW and JPEG formats at the same time. RAW formatted pictures offer more editing freedom when being manipulated without affecting picture resolution and clarity. 1. In Manual Mode, press the 4th button on the left column from the top to change from JPEG Only to JPEG+RAW mode. - JPEG + RAW saves images in both formats at once. Raw file are saved as *.DNG - JPEG Only saves images only in JPEG format. Note: •• DNG file size is big and risks taking more storage space. •• DNG files are stored in memory but not viewed in Gallery. Check for saved files with the file manager. For images that are taken in JPEG + RAW mode, a DNG mark will appear on the JPEG version in the gallery [Figure 2]. •• If you delete a JPEG file in Gallery, the relevant DNG file will also be removed.

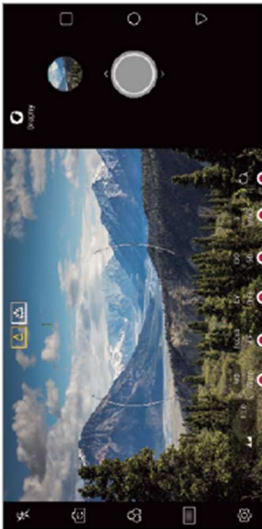
APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	 Figure 2 See https://www.lg.com/ca_en/support/product-help/CT20098088-1433764560565.

U.S. Patent No. 6,856,760	Accused Products
	Manual camera mode You can create professional level photos by using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options. 1 On the home screen, tap . 2 Select More by swiping camera modes, then tap . 3 Customize the following camera settings. • If you set Auto for options, the options are automatically adjusted according to the shooting target and environment. • If the Focus peaking option is set, the focused area is highlighted in color. This feature is available only in Manual Focus (MF) mode. 4 Tap  to take the photo.  Displays the various Graphy options. Reset the settings. Adjust shutter speed. Adjust ISO speed. Adjust brightness. Adjust focus. Adjust white balance.  • If you tap  a list of recommended photos with various settings will appear. • Selecting the Graphy effects allows you to shoot using the white balance, shutter speed, and ISO setting values applied to the recommended photo.

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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U.S. Patent No. 6,856,760	Accused Products							
Customizing the camera options You can customize a variety of camera options to suit your preferences. Tap  on the screen. <table><tr><td rowspan="3">SAVE OPTIONS</td><td>Photo size</td><td>Allows you to choose the photo size and resolution.</td></tr><tr><td>Save as RAW</td><td>The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.</td></tr><tr><td>Ultra wide shot distortion correction</td><td>Corrects the screen distortion when taking ultra wide-angle photos.</td></tr></table>		SAVE OPTIONS	Photo size	Allows you to choose the photo size and resolution.	Save as RAW	The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.	Ultra wide shot distortion correction	Corrects the screen distortion when taking ultra wide-angle photos.
SAVE OPTIONS	Photo size		Allows you to choose the photo size and resolution.					
	Save as RAW		The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.					
	Ultra wide shot distortion correction	Corrects the screen distortion when taking ultra wide-angle photos.						
LG V60 ThinQ 5G User Manual, at 87-88.								

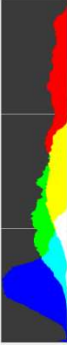
U.S. Patent No. 6,856,760	Accused Products
	Manual camera mode You can create professional level photos by using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options. 1 Tap , then tap MODE > Manual Camera . 2 Customize the following camera settings.  Adjust white balance. Adjust focus. Adjust brightness. Reset the settings. Adjust shutter speed. Adjust ISO speed. 3 Tap  to take the photo.

Customizing the camera options You can customize a variety of camera options to suit your preferences. Tap  on the screen. •  : Take a photo in FullVision (18.9:9 aspect ratio). •  : Select values for aspect ratio and size for taking photos. •  : Set the timer to automatically take photos after a specified period of time.	
Graphy photos	Adjust the white balance, ISO and shutter speed for the recommended photo. See <i>Graphy</i> for details.
Save as RAW	The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image.
Cheese shutter	Take photos with voice commands.
Tag locations	Save the image with GPS location data.
Guide	Displays guide grids so that you can take photos based on the horizontal and vertical reference lines.
Add signature	Displays a personalized signature on the photos.
Storage	Select if you want to store the pictures and videos in the Internal storage or SD card. (Available when a memory card is inserted.)
Help	Provides help information for each camera menu.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	LG G7 ThinQ User Manual, at 102-103. In addition, as shown in the following screenshots taken using exemplary LGE devices, the 760 Accused Products each record images in RAW format. A screenshot from a video game showing a Mario character standing on a light brown wooden floor. The background is a dark brown wall. The character is wearing his signature red cap with a white 'M', a red shirt, blue overalls, and white gloves and shoes.

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U.S. Patent No. 6,856,760	Accused Products
	← Settings SAVE OPTIONS Photo size 16:9 (4.6MP) 2848x1602 Save as RAW Take a photo in RAW for more editing control. Images are saved in both DNG and JPEG formats. USEFUL FEATURES Graphy photos Apply settings from existing photos to your own Tracking focus Track and maintain focus on a moving object Guide Level Add signature Tag locations Help ← Original Recommended Graphy photos Apply settings from existing photos to your own Tracking focus Track and maintain focus on a moving object Guide Level DATE Add signature Details 20220623_100740(1).dng Date : June 23, 2022 10:07 AM Resolution : 4624x3468 Size : 32.10 MB Path : /storage/emulated/0/DCIM/Camera/ 

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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U.S. Patent No. 6,856,760	Accused Products
	

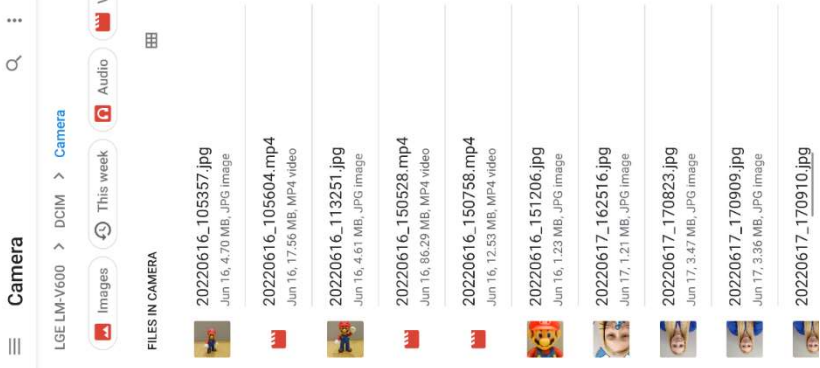
APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	LG G7 ThinQ The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry and software that differs only in ways that are immaterial to the limitation. <i>See</i> Appendix 10 identifying, for each of the remaining 760 Accused Products, the processing circuitry and operating system software that encode still pictures by a second encoding method such as RAW.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	<u>Doctrine of Equivalents</u> To the extent LGE argues that this limitation is not literally met in any 760 Accused Product, pursuant to P.R. 3-1(d) Maxell asserts that this limitation is met under the doctrine of equivalents because the identified structure matches the function, way, and result of the claimed element and, to the extent there is a difference, the difference is insubstantial. For example, to the extent that LGE argues that the 760 Accused Products do not encode images by a second encoding method, each of these products include software, hardware, or a combination of the two that perform the equivalent function of encoding images using an encoding method. Using this software, hardware, or combination of the two, these products perform substantially the same function of providing a format for storage of the picture data in substantially the same way as claimed, by application of a pre-defined algorithm. The performance of this function achieves substantially the same result, for example, encoding images such that they are stored using a predefined algorithm (different than the algorithm used to encode the first still picture) in such a manner that a predefined algorithm can decode them.
[4.d] said picture corresponds to said first and second still pictures and has a smaller number of pixels than said first and second still pictures, and	Each of the 760 Accused Products reproduces a picture corresponding to said first and second still pictures and has a smaller number of pixels than said first and second still pictures. <i>See e.g.</i>, Technical Specifications of each of the 760 Accused Products available at LGE's and wireless carrier websites (showing that these devices can generate thumbnails). For example, the LG V60 ThinQ 5G reproduces a small image or thumbnail corresponding to each photograph. This small image or thumbnail has a smaller number of pixels than said first and second still pictures. By touching the screen at the location where a small image or thumbnail is displayed, the corresponding photograph is displayed by the devices. <i>See e.g.</i>:

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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U.S. Patent No. 6,856,760	Accused Products
	Gallery Gallery overview You can view and manage photos and videos saved on your device. 1 On the home screen, tap . 2 Tap a folder and select a file. • View the selected file in full-screen mode. • While viewing a photo, swipe left or right to view the previous or next photo. • While viewing a video, swipe left or right to rewind or fast-forward the video. • If you save the location information or use a scene mode when shooting, a sub folder is generated for each video. • To view photos by location at which the photo was taken, tap  on the home screen and tap  > Tag locations, then tap . The photos are automatically grouped by location under the Memories tab of the Gallery app.  • Some file formats may not be supported, depending on the installed software. • Some files may not be opened due to encoding. • Files that exceed the size limit may cause an error. • You need to activate the GPS feature to create contents in Memories. LG V60 ThinQ 5G User Manual, at 97.

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	3 After taking a photo, you can instantly share or delete the photo. Touch and hold the thumbnail and tap  or .  <i>Id.</i> at 81. Deleting files You can select images or videos to delete from your video by tapping  at the top left corner of its thumbnail.

U.S. Patent No. 6,856,760	Accused Products
	<i>Id.</i> at 100. Writing notes on a screenshot 1 While viewing the screen you want to capture, drag the status bar downwards and then tap . • The screen is captured and displayed as a thumbnail on the right bottom of the screen. 2 To write notes on the screen, tap . 3 Write notes using the tools. •  : Zoom in or out, or adjust the area to capture. •  : Write notes by hand. •  : Erase handwritten notes. •  : Undo the previous edit. •  : Redo the recently deleted edits. •  : Crop the screen as you desire. 4 Tap  to save the notes. • Saved notes can be viewed in Gallery. <i>Id.</i> at 108. For example, the LG G7 ThinQ reproduces a small image or thumbnail corresponding to each photograph. This small image or thumbnail has a smaller number of pixels than said first and second still pictures. By touching the screen at the location where a small image

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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U.S. Patent No. 6,856,760	Accused Products
	or thumbnail is displayed, the corresponding photograph is displayed by the devices. <i>See e.g.:</i>  Deleting files You can select images or videos to delete from your video by tapping at the top right corner of its thumbnail. LG G7 ThinQ User Manual, at 19.

	Gallery Gallery overview You can view and manage photos and videos saved on your device. 1 Tap  > . 2 Tap a folder and select a file. • View the selected file in full-screen mode. • While viewing a photo, swipe left or right to view the previous or next photo. • While viewing a video, swipe left or right to rewind or fast-forward the video. • When you take a photo by using the AI CAM feature, a Tags folder is created under the Albums tab of the Gallery app. The photos are automatically classified by tags under the Tags folder. • You can view the photos or videos organized by year, month or day in the Photos tab. • To view photos by location where the photos were taken, tap  > Tag locations, then tap . The photos are automatically grouped by location under the Memories tab of the Gallery app.  • Some file formats may not be supported, depending on the installed software. • Some files may not be opened due to encoding. • Files that exceed the size limit may cause an error. • You need to activate the GPS feature to create contents in Memories. LG G7 ThinQ User Manual, at 112.
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APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry and software that differs only in ways that are immaterial to the limitation. <i>See</i> Appendix 10 identifying, for each of the remaining 760 Accused Products, the processing circuitry and operating system software that produces thumbnails corresponding to the first and second still pictures, and which have fewer pixels than the first and second still pictures. <u>Doctrine of Equivalents</u> To the extent LGE argues that this limitation is not literally met in any 760 Accused Product, pursuant to P.R. 3-1(d) Maxell asserts that this limitation is met under the doctrine of equivalents because the identified structure matches the function, way, and result of the claimed element and, to the extent there is a difference, the difference is insubstantial. For example, to the extent that LGE argues that the 760 Accused Products do not practice this limitation, each of these products include software, hardware, or a combination of the two that perform the equivalent function of producing an image with a smaller number of pixels than two corresponding pictures (each of which is encoded in a different manner). Using this software, hardware, or combination of the two, these products perform substantially the same function in substantially the same way as claimed, which is to produce a picture with a smaller number of pixels than the first and second still pictures. The performance of this function achieves substantially the same result, producing a picture that corresponds to first and second still pictures, but which has a smaller number of pixels than those pictures.
[4.e] wherein said first still picture, said second still picture and said picture are related pictures derived from common signal data;	Each of the 760 Accused Products reproduces a first still picture and second still picture that are related pictures derived from common signal data. <i>See e.g.</i> , Technical

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

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	Specifications of each of the 760 Accused Products available at LGE’s website (showing that each of the devices can capture and store pictures in different formats). For example, as shown above in [4.a], [4.b], and [4.c] the LG V60 ThinQ 5G and LG G7 ThinQ can capture and generate JPEG images, RAW format images, and thumbnails. <i>See supra</i> claim [4.a], [4.b], and [4.c]. Upon information and belief, these images can be derived from common signal data generated by, for example, the image sensor in the cameras. <i>See supra</i> claim [4.pre] (showing that the 760 Accused Products include cameras); <i>see also supra</i> claim [4.b] and [4.s] (showing that the 760 Accused Products generate at least JPEG, RAW, and thumbnail images based on the signal received from the camera). The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry, cameras and associated circuitry, and software that differs only in ways that are immaterial to the limitation. <i>See</i> Appendix 10 identifying, for each of the remaining 760 Accused Products, the cameras, processing circuitry and operating system software that produce the first and second still pictures, and the picture, which are all derived from common signal data produced by the respective cameras and image capture circuitry provided in each 760 Accused Product. <u>Doctrine of Equivalents</u> To the extent LGE argues that this limitation is not literally met in any 760 Accused Product, pursuant to P.R. 3-1(d) Maxell asserts that this limitation is met under the doctrine of equivalents because the identified structure matches the function, way, and result of the claimed element and, to the extent there is a difference, the difference is insubstantial. For example, to the extent that LGE argues that the 760 Accused Products do not have derive images based on a common signal, each of these products include software, hardware, or a combination of the two that perform the equivalent function of

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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	producing two related pictures derived from the same underlying image data, for example image data provided by a camera. Using this software, hardware, or combination of the two, these products perform substantially the same function of creating two differently-encoded versions of the underlying image in substantially the same way, by application of two different predetermined encoding algorithms, encoding two pictures based on image data produced by camera hardware. The performance of this function achieves substantially the same result, for example, recording two related pictures, each in a different encoding format, derived from a single common source image.
[4.f] outputting a plurality of pictures from the reproducing operation; and	Each of the 760 Accused Products performs the step of outputting a plurality of reproduced pictures from the reproducing operation. <i>See e.g.</i> , Technical Specifications of each of the 760 Accused Products available at LGE's and wireless carrier websites (showing that these devices include a processor and/or display for outputting pictures). For example, the LG V60 ThinQ 5G includes a processor and a display for outputting a plurality of pictures from the reproducing operation:

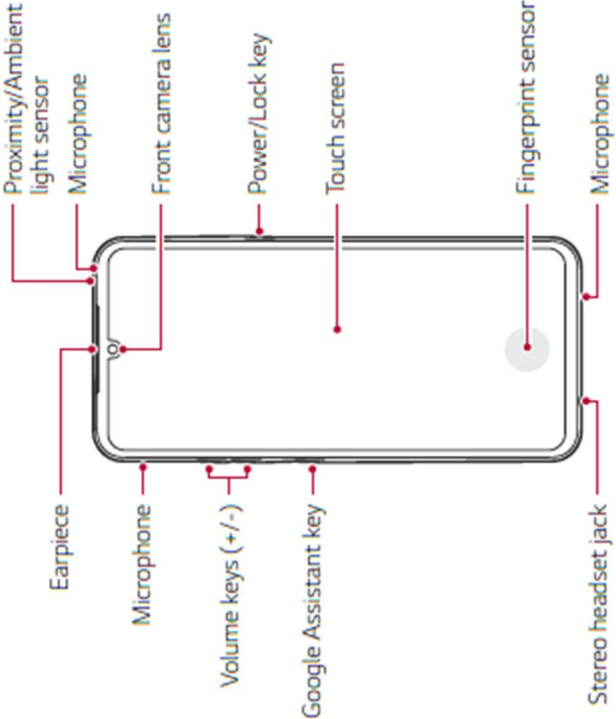
APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

	 KEY FEATURES • Ultimate multi-tasking with the LG Dual Screen™ (Sold separately) • 6.8" OLED Display • 8K Video Recording • Triple Camera System: 64 MP Standard, 13 MP Ultra-Wide, Z-Camera • All-Day 5,000 mAh Battery • 5G Connectivity X
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ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products												
	<table><tr><td>Screen Resolution</td><td>2460 x 1080 pixels</td></tr><tr><td>Rear Camera Resolution</td><td>64MP (Standard Angle), 13MP (Wide Angle)</td></tr><tr><td>Processor</td><td>Qualcomm Snapdragon™ 865 Octa-core</td></tr><tr><td>Storage</td><td>128 GB (up to 99 GB usable)*</td></tr><tr><td>*</td><td>Usable memory varies depending on software versions and settings</td></tr><tr><td>Processor</td><td>Qualcomm Snapdragon™ 865 Octa-core</td></tr></table>	Screen Resolution	2460 x 1080 pixels	Rear Camera Resolution	64MP (Standard Angle), 13MP (Wide Angle)	Processor	Qualcomm Snapdragon™ 865 Octa-core	Storage	128 GB (up to 99 GB usable)*	*	Usable memory varies depending on software versions and settings	Processor	Qualcomm Snapdragon™ 865 Octa-core
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	LG V60 ThinQ 5G Technical Specifications (https://www.lg.com/us/cell-phones/lg-lmv600amaaticb-att-v60-thinq-5g).												

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	 Diagram of an LG V60 ThinQ 5G smartphone with various components labeled: - Proximity/Ambient light sensor - Microphone - Front camera lens - Power/Lock key - Touch screen - Fingerprint sensor - Microphone - Stereo headset jack - Google Assistant key - Volume keys (+/-) - Microphone - Earpiece LG V60 ThinQ 5G User Manual, at 25.

	Display You can customize detailed settings for each screen type. On the settings screen, tap Display and customize the following settings. • Home screen: Customize settings for the Home screen. See <i>Home screen settings</i> for details. • Status bar: Set how the status bar and app corners will look at the top of the screen, and select display options for notification icons and battery percentage. • Navigation bar: Configure the Navigation bar. See <i>Using Navigation bar</i> for details. • AOD (always-on display): Always display information, such as the date, time and notifications, even when the screen is turned off. For details, see <i>AOD (always-on display)</i>. • Comfort view: Set the device to reduce amount of blue light on screen to reduce eye strain. • Night mode: You can apply a dimmed screen theme to avoid glare on the screen at night time. • Screen color: Adjust the color, color temperature, or RGB values for the desired screen.  • Tap  to reset the settings.
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	• Video Enhancer: Enable to watch full-screen videos with brighter and more vibrant colors. • Font: Change the font size, bold text or type. • Accent color: Change the accent color for settings, menus, notification windows, etc. • Display size: Set the items on the screen to a size easy for you to see. Some items may change position. • App scaling: Adjust the screen size of apps.  Aspect ratio • This device uses 20.5:9 aspect ratio. - Some downloaded apps may not support 20.5:9 aspect ratio. In this case, select the most optimal screen ratio for the app or consult the app provider for more information. - You can select the aspect ratio for individual apps. On the home screen, tap Settings > Display > App scaling. Select an app, then select the desired aspect ratio from None (Original), Compatibility (16:9), Standard (16.7:9), and Full screen. • Brightness: Use the slide bar to change the device's screen brightness. To automatically adjust screen brightness according to ambient light intensity, tap the Auto switch. • Extra brightness: Allow display to be brighter than max brightness. • Screen timeout: Automatically turn off the screen when the device is left idle for a specified period of time. • Auto-rotate screen: Automatically rotate the screen according to the device's orientation. • Screen saver: Display a screen saver when the device is connected to the holder or charger. Select a screen saver type to display. • One-handed screen: Make the screen size smaller to conveniently use the device with one hand. Drag the middle of the screen to the left or right and hold.
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**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products
	LG V60 ThinQ 5G User Manual, at 140-141. As another example, the LG G7 ThinQ includes a processor and/or display: 

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	KEY FEATURES • Boombox Speaker • Super Bright Display • Super Bright Camera • AI CAM • Super Far Field Voice Recognition • DTS: X 3D Surround Sound Processor Qualcomm Snapdragon™ 845 up to 2.8 GHz x 4 + 1.7 GHz x 4 Octa-Core Screen Resolution 3120 x 1440 pixels LG G7 ThinQ Technical Specifications (https://www.lg.com/us/cell-phones/lg-lgg710pm)

U.S. Patent No. 6,856,760	Accused Products
	Parts overview LED lamp Proximity/Ambient light sensor Volume keys (+/-) Google Assistant key Microphone Earpiece Front camera lens Power/Lock key Touch screen Stereo headset jack Charger/USB cable port LG G7 ThinQ User Manual, at 46.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
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U.S. Patent No. 6,856,760	Accused Products
	• New Second screen: Select how the status bar and app corners will look. • Home touch buttons: Rearrange Home touch buttons or change their background colors. • Always-on display: Always display information, such as the date, time and notifications, even when the screen is turned off. For details, see <i>Always-on display</i>. • App scaling: Adjust the screen size of apps.  Aspect ratio • This device uses 19.5:9 aspect ratio. - Some downloaded apps may not support 19.5:9 aspect ratio. In this case, select the most optimal screen ratio for the app or consult the app provider for more information. - You can select the aspect ratio for individual apps by tapping Settings > Display > App scaling. Select an app, then select the desired aspect ratio from None (Original), Compatibility (16:9), Standard (16.7:9), and Full screen. • Display size: Set the items on the screen to a size easy for you to see. Some items may change position. • Screen resolution: Adjust the screen resolution.  • When you change the screen resolution, currently running apps are closed. • Screen color: Adjust the color, color temperature, or RGB values for the desired screen.  • Tap  to reset the settings. • Comfort view: Set the device to reduce amount of blue light on screen to reduce eye strain.

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
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U.S. Patent No. 6,856,760	Accused Products
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APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	Camera LGE LM-V600 > DCIM > Camera Images This week Audio V FILES IN CAMERA  20220616_105357.jpg Jun 16, 4.70 MB, JPG image  20220616_105604.mp4 Jun 16, 17.56 MB, MP4 video  20220616_113251.jpg Jun 16, 4.61 MB, JPG image  20220616_150528.mp4 Jun 16, 86.29 MB, MP4 video  20220616_150758.mp4 Jun 16, 12.53 MB, MP4 video  20220616_151206.jpg Jun 16, 1.23 MB, JPG image  20220617_162516.jpg Jun 17, 1.21 MB, JPG image  20220617_170823.jpg Jun 17, 3.47 MB, JPG image  20220617_170909.jpg Jun 17, 3.36 MB, JPG image  20220617_170910.jpg LG V60 ThinQ 5G

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	

APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

U.S. Patent No. 6,856,760	Accused Products
	The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry and software that differs only in ways that are immaterial to the limitation. <i>See</i> Appendix 10 identifying, for each of the remaining 760 Accused Products, the processing circuitry and operating system software that reproduce the plurality of pictures, and the display and storage onto which the plurality of pictures are output. <u>Doctrine of Equivalents</u> To the extent LGE argues that this limitation is not literally met in any 760 Accused Product, pursuant to P.R. 3-1(d) Maxell asserts that this limitation is met under the doctrine of equivalents because the identified structure matches the function, way, and result of the claimed element and, to the extent there is a difference, the difference is insubstantial. For example, to the extent that LGE argues that the 760 Accused Products do not meet this limitation, each of these products include software, hardware, or a combination of the two that perform the equivalent function of outputting a plurality of reproduced pictures from the reproducing operation. Using this software, hardware, or combination of the two, these products perform substantially the same function of displaying pictures in substantially the same way, by providing signals and data corresponding to them, as claimed. The performance of this function achieves substantially the same result, for example, producing signals and data associated with a plurality of reproduced pictures from the reproducing operation.
[4.g] outputting said first still picture corresponding to a selected picture.	Each of the 760 Accused Products performs the step of outputting said first still picture corresponding to a selected picture of a plurality of reproduced pictures from the reproducing operation. <i>See e.g.</i> , Technical Specifications of each of the 760 Accused

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products
	Products available at LGE's website (showing that the 760 Accused Products output said first still picture corresponding to a selected picture). For example, the LG V60 ThinQ 5G includes a processor and/or display:

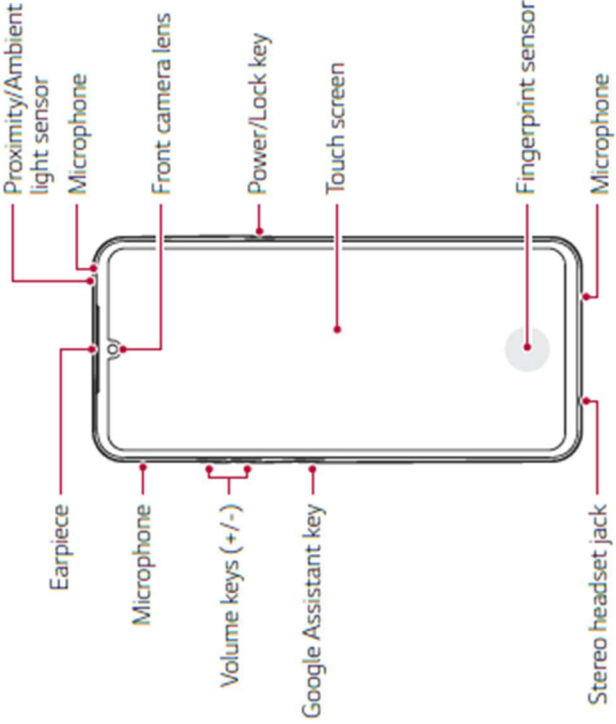
APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS

	 KEY FEATURES • Ultimate multi-tasking with the LG Dual Screen™ (Sold separately) • 6.8" OLED Display • 8K Video Recording • Triple Camera System: 64 MP Standard, 13 MP Ultra-Wide, Z-Camera • All-Day 5,000 mAh Battery • 5G Connectivity X
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U.S. Patent No. 6,856,760	Accused Products
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APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760 ACCUSED PRODUCTS

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[6.pre] A video reproducing method in accordance with claim 4,	<i>See supra</i> claim 4.
[6.a] wherein said first encoding method is according to a first encoding standard and	As shown above, the 760 Accused Products implement at least the JPEG, DNG, and RAW formats. <i>See supra</i> claim [4.b] and [4.c].
[6.b] said second encoding method is according to a second encoding standard.	As shown above, the 760 Accused Products implement at least the JPEG, DNG, and RAW formats. <i>See supra</i> claim [4.b] and [4.c].
[7.pre] A video reproducing method, comprising:	<i>See supra</i> claim [4].
[7.a] reproducing at least a first still picture, a second still picture and a	<i>See supra</i> claim [4.a]

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U.S. Patent No. 6,856,760	Accused Products
picture recorded on a recording medium,	
[7.b] wherein said first still picture is encoded by a first encoding method,	<i>See supra</i> claim [4.b]
[7.c] said second still picture is encoded by a second encoding method different from the first encoding method, and	<i>See supra</i> claim [4.c]
[7.d] said picture corresponds to said first and second still pictures and has a smaller number of pixels than said first and second still pictures, and	<i>See supra</i> claim [4.d]
[7.e] wherein said first still picture, said second still picture and said picture are related pictures derived from common signal data;	<i>See supra</i> claim [4.e]
[7.f] displaying a plurality of pictures from the reproducing operation; and	<i>See supra</i> claim [4.f]; <i>see also</i>

U.S. Patent No. 6,856,760	Accused Products
	Gallery Gallery overview You can view and manage photos and videos saved on your device. 1 On the home screen, tap . 2 Tap a folder and select a file. • View the selected file in full-screen mode. • While viewing a photo, swipe left or right to view the previous or next photo. • While viewing a video, swipe left or right to rewind or fast-forward the video. • If you save the location information or use a scene mode when shooting, a sub folder is generated for each video. • To view photos by location at which the photo was taken, tap  on the home screen and tap  > Tag locations, then tap . The photos are automatically grouped by location under the Memories tab of the Gallery app.  • Some file formats may not be supported, depending on the installed software. • Some files may not be opened due to encoding. • Files that exceed the size limit may cause an error. • You need to activate the GPS feature to create contents in Memories.

U.S. Patent No. 6,856,760	Accused Products
	Viewing photos You can view photos saved in Gallery. Add to or remove from your favorites. Back to the previous screen. Share images. Access additional options. Open Google Lens. Delete images.  To display the menu items, gently tap the screen. To hide the menu items, tap the screen again.
	LG V60 ThinQ 5G User Manual, at 97-98.

Gallery

Gallery overview

You can view and manage photos and videos saved on your device.

- 1 Tap  > .
- Saved photos and videos are displayed by folder.
- 2 Tap a folder and select a file.
- View the selected file in full-screen mode.
- While viewing a photo, swipe left or right to view the previous or next photo.
- While viewing a video, swipe left or right to rewind or fast-forward the video.
- When you take a photo by using the AI CAM feature, a Tags folder is created under the Albums tab of the Gallery app. The photos are automatically classified by tags under the Tags folder.
- You can view the photos or videos organized by year, month or day in the Photos tab.
- To view photos by location where the photos were taken, tap  >  > **Tag locations**, then tap . The photos are automatically grouped by location under the Memories tab of the Gallery app.



- Some file formats may not be supported, depending on the installed software.
- Some files may not be opened due to encoding.
- Files that exceed the size limit may cause an error.
- You need to activate the GPS feature to create contents in Memories.

U.S. Patent No. 6,856,760	Accused Products
	Viewing photos Diagram illustrating the viewing of photos on a device, with labels for various UI elements: - Add to or remove from your favorites. - Open Google Lens. - Start the camera. - Access additional options. - Back to the previous screen. - Write a memo on a photo. - Delete images. - View related content. - Share images. - Edit images. • To display the menu items, gently tap the screen. To hide the menu items, tap the screen again. LG G7 ThinQ User Manual, at 112-113. The above identification of infringing processes is representative; each of the 760 Accused Products performs this limitation in substantially the same way, using processing circuitry and software that differs only in ways that are immaterial to the limitation. See Appendix 10 identifying, for each of the remaining 760 Accused Products, the processing circuitry and operating system software that reproduce the plurality of pictures, and the display that displays the plurality of pictures.

**APPENDIX 1: INFRINGEMENT CONTENTIONS APPLYING CLAIMS 4, 6, 7, 9 OF U.S. PATENT NO. 6,856,760 TO 760
ACCUSED PRODUCTS**

U.S. Patent No. 6,856,760	Accused Products
[7.g] displaying said first still picture corresponding to a selected picture.	
9. A video reproducing method in accordance with claim 7,	<i>See supra</i> claim [4.g] and [7.f].
[9.a] wherein said first encoding method is according to a first encoding standard and	<i>See supra</i> claim 7.
[9.b] said second encoding method is according to a second encoding standard.	As shown above, the 760 Accused Products implement at least the JPEG, DNG, and RAW formats. <i>See supra</i> claim [4.b] and [4.c].
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