

# PUBLIC EXHIBIT 21

LG Ex. 1011  
LG v. ATI

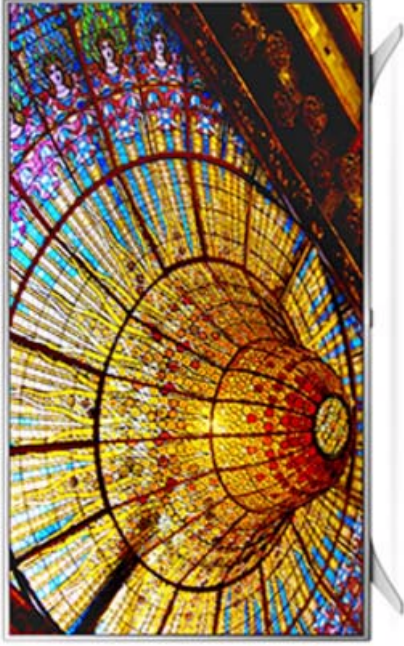
U.S. Patent No. 8,760,454  
LG / MediaTek Products

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U.S. Patent No. 8,760,454: Claim 2

"2. A unified shader comprising:"

The LG 49UH6500 television and X Power LS755 phone (collectively, the "LG Products") include a unified shader.



See <http://www.lg.com/us/support-product/lg-49UH6500>.

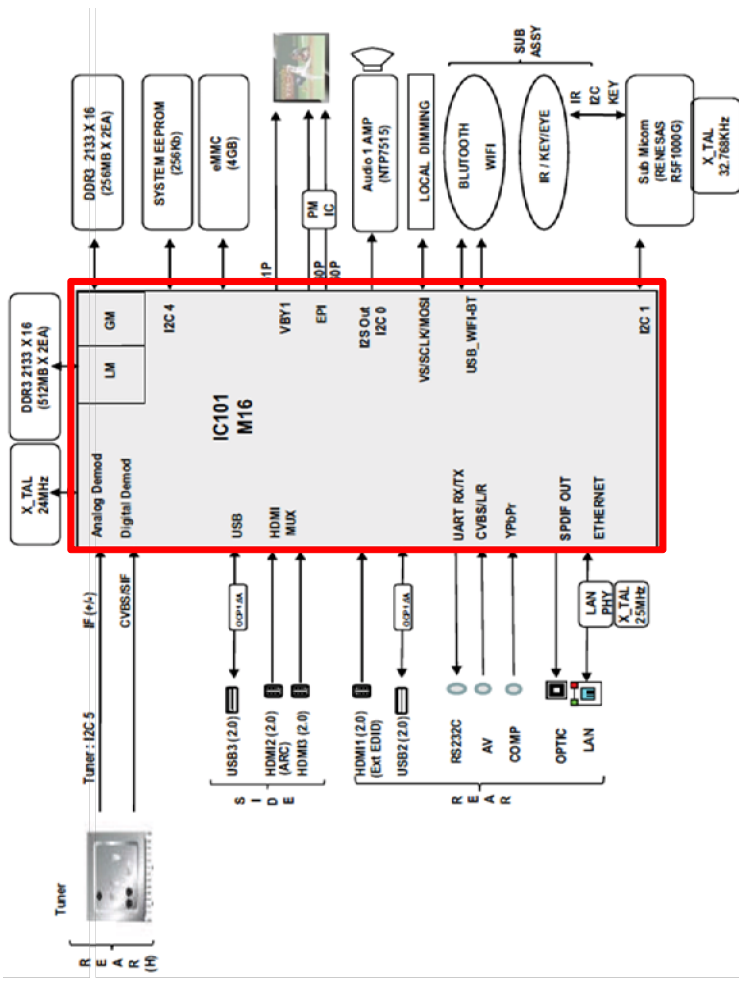
LG X power™ Boost Mobile®  
LS755  
ZOOM



See <http://www.lg.com/us/cell-phones/lg-ls755-x-power-boost-mobile>.

The LG Products include one of the following System-on-Chips (SoCs): M16 and MediaTek MT6755M.

U.S. Patent No. 8,760,454: Claim 2  
 "2. A unified shader comprising:"



See LG LED TV Service Manual, Chassis: UA63J, Model: 43UH6500, p.28, available at [https://lg.encompass.com/shop/model\\_research\\_docs/?file=/ZEN/sm/43UH6500UB.pdf](https://lg.encompass.com/shop/model_research_docs/?file=/ZEN/sm/43UH6500UB.pdf).

## Technical Specifications

Carrier	Boost Mobile®
Display	5.3" (1280 x 720) HD TFT Display
Battery	4,100 mAh non-removable
Platform	Android 6.0.1 Marshmallow
Processor	MediaTek 1.8 GHz Octa-Core MT6755M

The LG 49UH6500 television and the LG 43UH6500 television are part of the LG UH6500 Series televisions. See [www.lg.com/us/support/products/documents/UH6500\\_Series\\_Spec\\_Sheet\\_Updated\\_10112016.pdf](http://www.lg.com/us/support/products/documents/UH6500_Series_Spec_Sheet_Updated_10112016.pdf).

U.S. Patent No. 8,760,454: Claim 2  
 "2. A unified shader comprising:"

See <http://www.lg.com/us/cell-phones/lg-LS755-x-power-boost-mobile>.

The SoCs include one of the following ARM Mali graphics processing units (the "Mali GPUs"): T760 MP2 and T860 MP2.

Smart Function	CPU	M16
	GPU	CA53 x4 1.1GHz / 1MB Mali T760 MP2 (650MHz)
	OSD	Separated 2K@60p
	HEVC	4K @60, 10bit
	DDR	DDR3-2133/ DDR4-2400
	Audio DSP	HiFi3 Dual @370MHz

See LG LED TV Service Manual, Chassis: UA63J, Model: 43UH6500, p.123, available at [https://lg.encompass.com/shop/model\\_research\\_docs/?file=/ZEN/sm/43UH6500UB.pdf](https://lg.encompass.com/shop/model_research_docs/?file=/ZEN/sm/43UH6500UB.pdf).

**MediaTek MT6755 Helio P10 Specs**

Release	Q4 2015
Process	28nm
Apps CPU	8x Cortex-A53, up to 2.0GHz
GPU	ARM Mali-T860 MP2 at 700 MHz

See <http://cnoemphone.com/blog/mediatek-mt6755-helio-p10-specs-benchmark-and-smartphone-list>.

The Mali GPUs share substantially similar structure, function, and operation.

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