

Exhibit 11

U.S. Patent No. 9,680,068

"1. A method of preparing a film, the method comprising:"

1. A method of preparing a film, the method comprising:

The Samsung Q60R QLED TV is an exemplary LED TV (the "Samsung TV") that includes a film.



For example, the Samsung TV includes quantum dots (the "Samsung Quantum Dots")¹.

¹ Upon information and belief, all Samsung QLED TVs listed in Exhibit 6 include the same Quantum Dots and Quantum Dot Enhancement Film. For example, Samsung QLED TV's display stack includes a Blue LED and layer of Quantum Dots in a Quantum Dot Enhancement Film.

See e.g., "Environmentally Friendly Quantum Dots for Display Applications," Eunjoo Jang (SAIT, Samsung Electronics), Quantum Dot Forum 2018 Presentation at Slides 11, 16.
see also e.g., <https://www.techradar.com/news/samsung-qled-samsungs-latest-television-acronym-explained>;
see also e.g., <https://www.samsung.com/global/tv/blog/stained-glass-and-quantum-dot-technology/>;
see also e.g., <https://www.displaydaily.com/article/display-daily/future-of-quantum-dot-display-niche-or-mainstream>;
see also e.g., <https://www.techradar.com/news/samsung-qled-samsungs-latest-television-acronym-explained>.

Samsung's QD-OLED TV displays operate in substantially the same way in that they are comprised of a Blue OLED and Quantum Dot layer.

See e.g., <https://www.cnet.com/news/samsung-reportedly-working-on-quantum-dot-oled-tv-hybrid/>.

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Q60R Key Features



100% Color Volume

Over a billion shades of brilliant color—powered by Quantum Dots¹—deliver our most realistic picture.



Quantum Processor 4K

An intelligently powered processor that upscales content for sharp detail and refined color.



Ambient Mode™

Complements your space by turning a blank screen into enticing visuals or at-a-glance news.²



Quantum HDR 4X

Shades of color and detail leap off the screen in dark and bright scenes specific conditions.³

See e.g., <https://www.samsung.com/us/televisions-home-theater/tvs/qled-4k-tvs/43-class-q60-qled-smart-4k-uhd-tv-2019-qn43q60rafxza/>.

Quantum Dots

QLED displays true colors (over a billion shades to be exact), even in the brightest scenes with 100% Color Volume.¹ So whether you're watching survival shows that take place on secluded beaches or nature documentaries that explore every corner of the planet, you'll experience rich cinematic views that will make you feel like you're there.

See e.g., <https://www.samsung.com/us/televisions-home-theater/tvs/qled-tv/technology/>.

The Samsung Quantum Dots used in the Samsung TV are nanoparticles.

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QLED Technology

New Alloy Quantum Dot
Next-generation display of nano-sized materials

Gradient ZnSeS shell
New Metal Implemented Core
New Metal Implemented Shell

One Material, One Billion Colors
Nanoparticles change light into one billion colors

2 nm
3 nm
4 nm

The Perfect Material for TV
Reproduce everything that the human eye can see

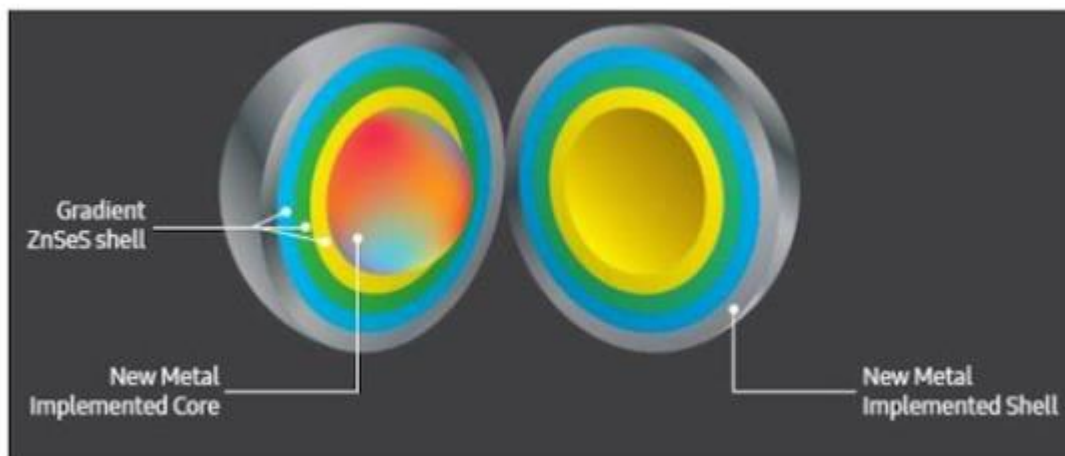
True RGB

Energy Efficiency

Durability

See e.g., <https://news.samsung.com/global/how-qled-achieves-excellence-in-picture-quality>;
See also e.g., <https://www.hitechcentury.com/samsungs-next-gen-qled-tv-showcased-at-sea-forum-2017/>;

"1. A method of preparing a film, the method comprising:"



A diagram showing the unique Quantum Dot design Samsung is using in its 2017 QLED TVs.

PHOTO: SAMSUNG

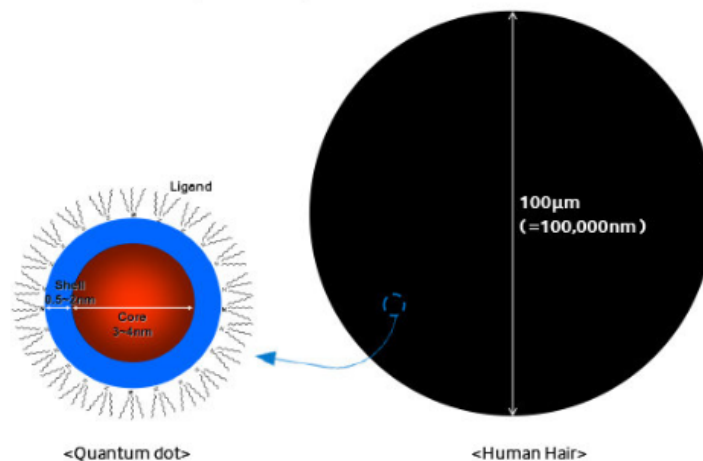
See e.g., <https://www.forbes.com/sites/johnarcher/2017/09/19/what-is-qled-and-why-does-it-matter/#732982817fb3>.

"1. A method of preparing a film, the method comprising:"

What Is 'Quantum Dot?'

Quantum dots are nano-sized crystals made of semiconductor materials. A nanometer (nm) is one billionth of a meter, which means these extra-small particles are smaller than 1/10,000 of a single strand of human hair.*

Width Comparison: Quantum Dot vs. Human Hair



Quantum dots can be made of different kinds of elements, but when they're regulated down to a size small enough, they possess physical properties that make them suitable for many different applications. For example, quantum dots are very efficient in absorbing and then emitting light. Based on this quality, quantum dots are being researched in areas such as solar panels, bioimaging, and, of course, display.

See e.g., <https://news.samsung.com/za/why-are-quantum-dot-displays-so-good>.

"1. A method of preparing a film, the method comprising:"

What the what?

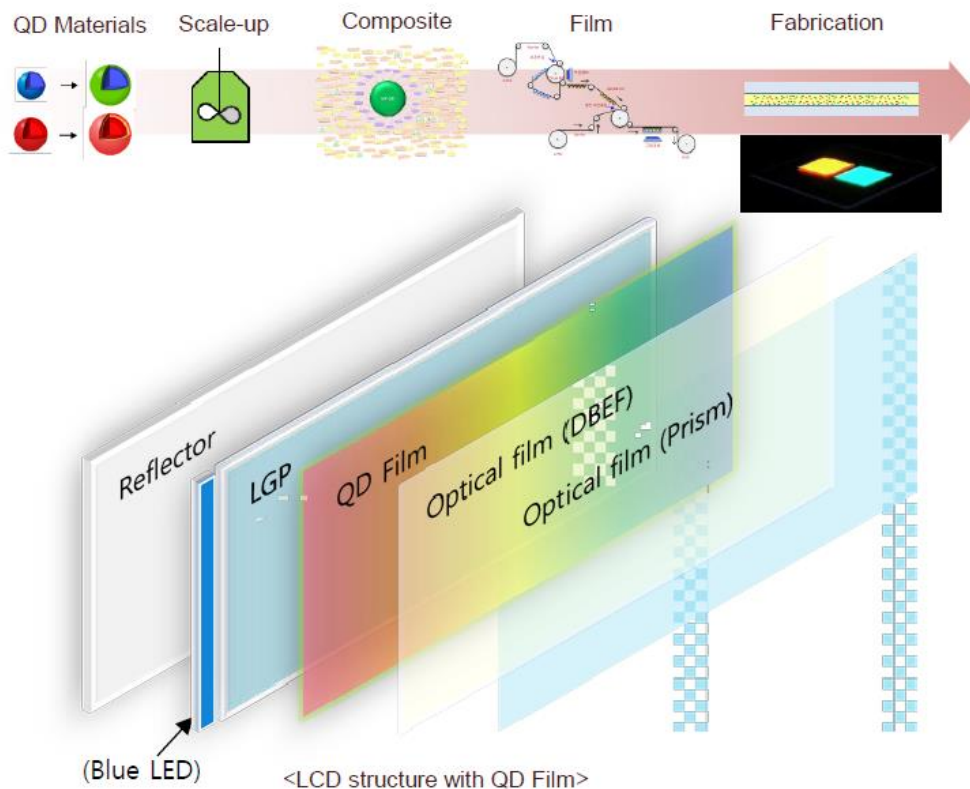
Quantum dots are microscopic nanocrystals that glow a specific wavelength (i.e. color) when given energy. The exact color produced by the QD depends on its size: larger for longer wavelengths (redder colors), smaller for shorter wavelengths (bluer). That's a bit of an oversimplification, but that's the basic idea.

Specific wavelengths of color is what we need to great an image on a television. Using the three primary colors of red, green, and blue, we can mix a full rainbow of teals, oranges, yellows, and more.

See e.g., <https://www.cnet.com/news/quantum-dots-how-nanocrystals-can-make-lcd-tvs-better/>.

The Samsung Quantum Dots are comprised in a Quantum Dot Enhancement Film (QDEF) that is prepared by Samsung using a method.

"1. A method of preparing a film, the method comprising:"



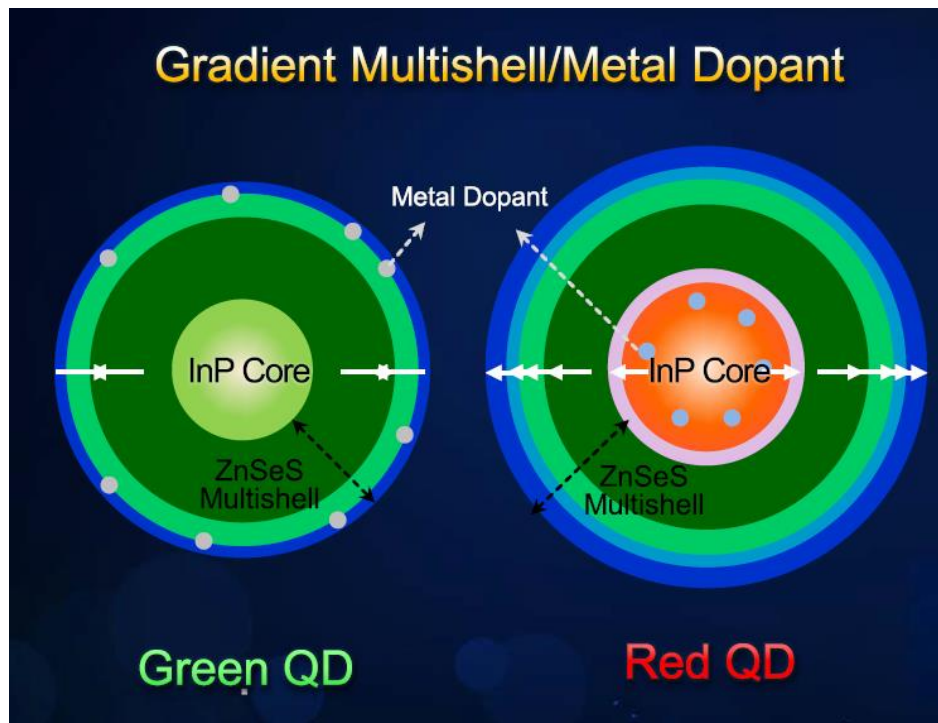
See e.g., “Environmentally Friendly Quantum Dots for Display Applications,” Eunjoo Jang (Samsung Advanced Institute of Technology, Samsung Electronics), Quantum Dot Forum 2018 Presentation (Exhibit 12) at Slide 11.

"forming an emulsion comprising a first phase that comprises a first polymer and quantum dots and"

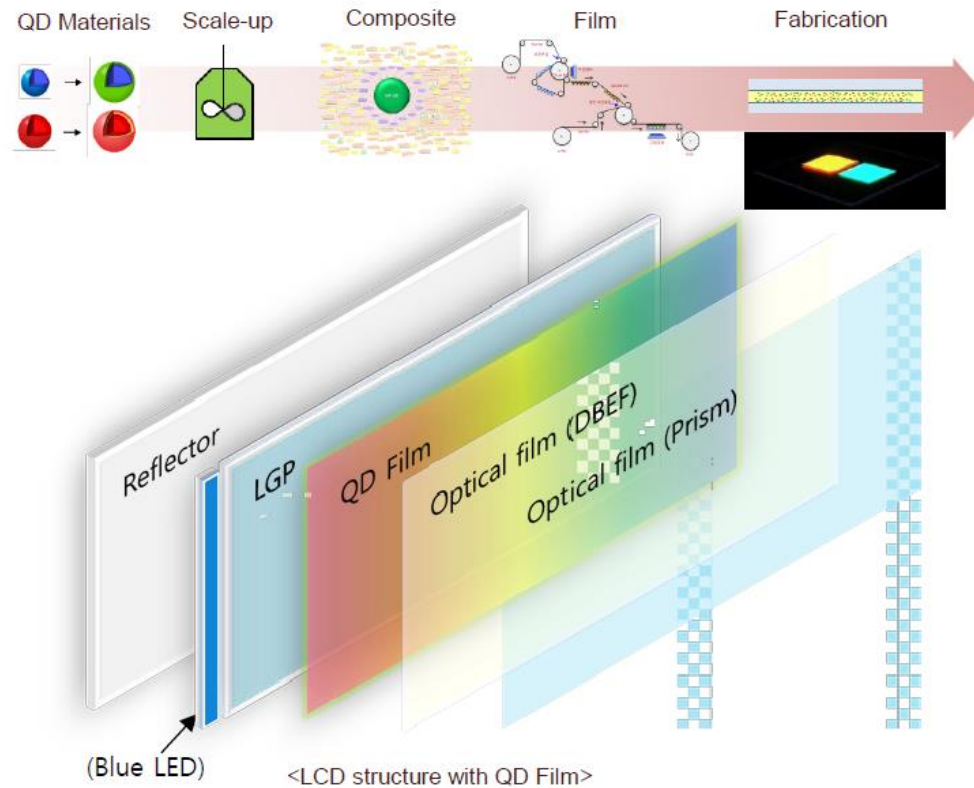
forming an emulsion comprising a first phase that comprises a first polymer and quantum dots and

The method used to produce Samsung's QDEF forms an emulsion comprising a first phase that comprises a first polymer and quantum dots.

For example, Samsung's QDEF includes quantum dots.

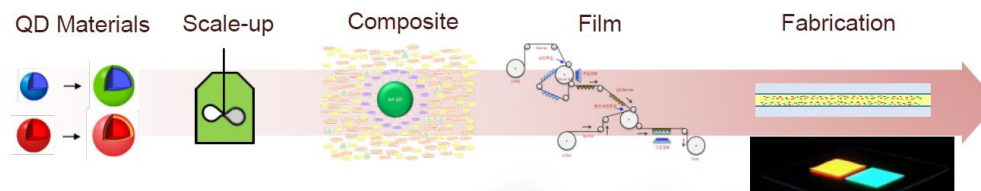


"forming an emulsion comprising a first phase that comprises a first polymer and quantum dots and"



See e.g., “Environmentally Friendly Quantum Dots for Display Applications,” Eunjoo Jang (Samsung Advanced Institute of Technology, Samsung Electronics), Quantum Dot Forum 2018 Presentation (Exhibit 12) at Slides 11 and 15.

The quantum dots are placed in an emulsion including a first polymer and the quantum dots.



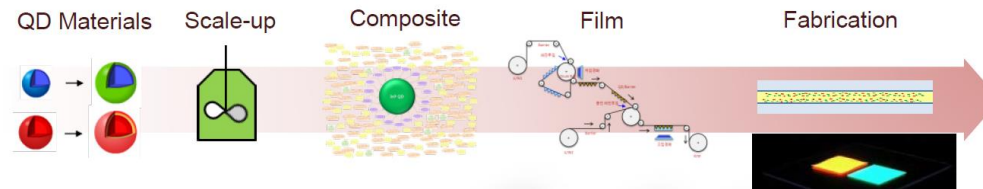
See e.g., “Environmentally Friendly Quantum Dots for Display Applications,” Eunjoo Jang (Samsung Advanced Institute of Technology, Samsung Electronics), Quantum Dot Forum 2018 Presentation (Exhibit 12) at Slide 11.

"a second phase that comprises a second polymer; depositing the emulsion between gas barrier sheets to form a film; and"

a second phase that comprises a second polymer; depositing the emulsion between gas barrier sheets to form a film; and

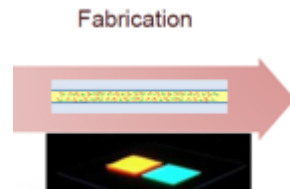
The method used to produce Samsung's QDEF forms an emulsion comprising a second phase that comprises a second polymer and deposits the emulsion between gas barrier sheets to form a film.

For example, Samsung's QDEF emulsion includes a second polymer with Samsung's quantum dot and first polymer material.

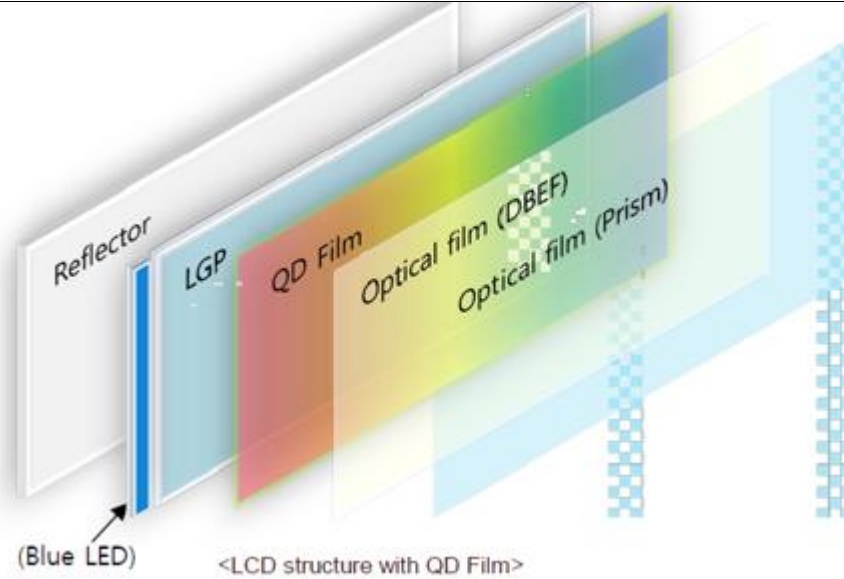


See e.g., "Environmentally Friendly Quantum Dots for Display Applications," Eunjoo Jang (Samsung Advanced Institute of Technology, Samsung Electronics), Quantum Dot Forum 2018 Presentation (Exhibit 12) at Slide 11.

On information and belief, the emulsion is deposited between gas barrier sheets to form a film.



"a second phase that comprises a second polymer; depositing the emulsion between gas barrier sheets to form a film; and"



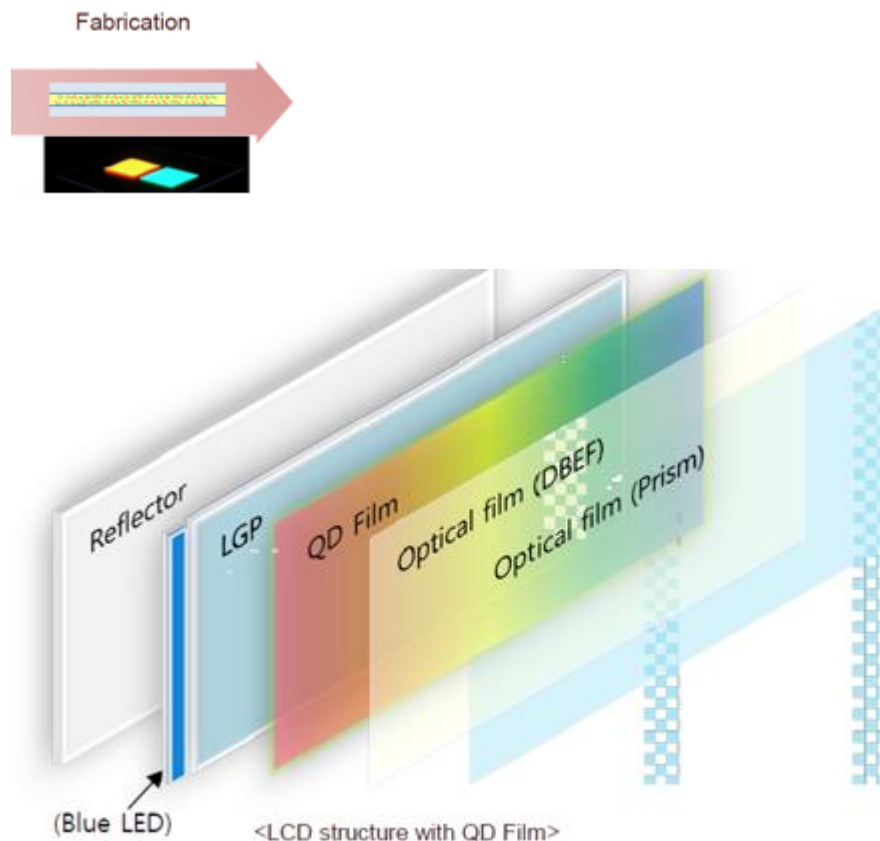
See e.g., “Environmentally Friendly Quantum Dots for Display Applications,” Eunjoo Jang (Samsung Advanced Institute of Technology, Samsung Electronics), Quantum Dot Forum 2018 Presentation (Exhibit 12) at Slide 11.

U.S. Patent No. 9,680,068: Claim 1
"curing the first and second polymers."

curing the first and second polymers.

The method used to produce Samsung's QDEF includes curing the first and second polymers.

For example, on information and belief, the first and second polymers are cured and placed in between gas barriers, resulting in a film.



See e.g., "Environmentally Friendly Quantum Dots for Display Applications," Eunjoo Jang (Samsung Advanced Institute of Technology, Samsung Electronics), Quantum Dot Forum 2018 Presentation (Exhibit 12) at Slide 11.