

26. The OLED device of claim 1, wherein the scattering layer includes a matrix material with a lower index of refraction and a scattering material with a higher index of refraction.

27. The OLED device of claim 1, wherein the scattering layer includes a matrix material with a higher index of refraction and a scattering material with a lower index of refraction.

28. The OLED device of claim 1, wherein the scattering layer includes polymers, electrically conductive polymers, silicon dioxide, silicon nitride, titanium dioxide, or resin.

29. The OLED device of claim 1, wherein the scattering layer is electrically conductive.

30. The OLED device of claim 1, wherein the transparent substrate or cover has an anti-reflection layer applied to one or both sides thereof.

31. The OLED device of claim 1, further comprising a short-reduction layer having a through-thickness resistivity between 10^{-7} ohm-cm² to 10^3 ohm-cm² between the electrodes.

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