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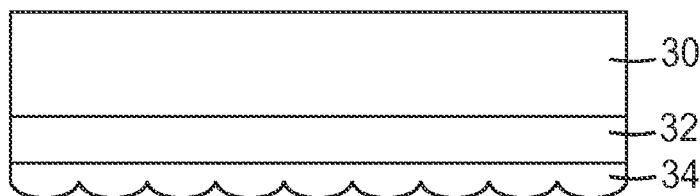


FIG. 3

(57) Abstract: A light extraction film having internal nanostructures and external microstructures for organic light emitting diode (OLED) devices. The light extraction film includes a flexible substantially transparent film, a low index nanostructured layer applied to the film, and a high index planarizing backfill layer applied over the nanostructured layer. External optical microstructures are applied to the flexible substantially transparent film on a side opposite the nanostructured layer to enhance light extraction from the OLED devices while providing for a more uniform luminance distribution.



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