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Corwin et al.

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(54) **FLEXIBLE LIGHTING DEVICE HAVING UNOBTRUSIVE CONDUCTIVE LAYERS**

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This patent is subject to a terminal disclaimer.

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H05K 1/02	(2006.01)

(52) **U.S. Cl.**

CPC ***H01L 33/62*** (2013.01); ***H01L 25/0753*** (2013.01); ***H05K 1/028*** (2013.01); *H01L 2224/16* (2013.01); *H01L 2933/0066* (2013.01)

(58) **Field of Classification Search**

CPC H05K 1/028; H01L 33/62; H01L 25/0573; H01L 2224/16; H01L 2933/0066

See application file for complete search history.

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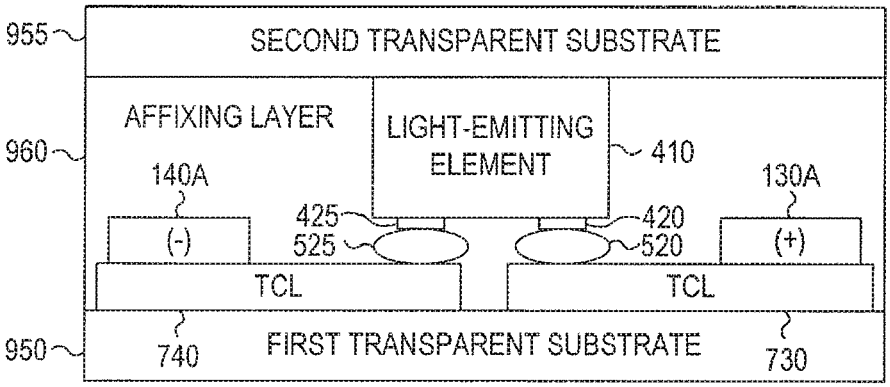
(57) **ABSTRACT**

A flexible lighting element is provided, comprising: a first substrate; first and second conductive elements over the first substrate; a light-emitting element having first and second contacts that are both on a first surface of the light-emitting element, the first and second contacts being electrically connected to the first and second conductive elements, respectively, and the light-emitting element emitting light from a second surface opposite the first surface; a transparent layer located adjacent to the second surface; and a transparent affixing layer located between the first substrate and the transparent layer, wherein the transparent layer and the transparent affixing layer are both sufficiently transparent to visible light that they will not decrease light transmittance below 70%, and the first and second conductive layers are at

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