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Kuelbs

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(54) **UMBRELLA APPARATUS**
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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 886 days.

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A45B 3/02 (2006.01)
(52) **U.S. Cl.**
USPC **362/102; 362/577**
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See application file for complete search history.

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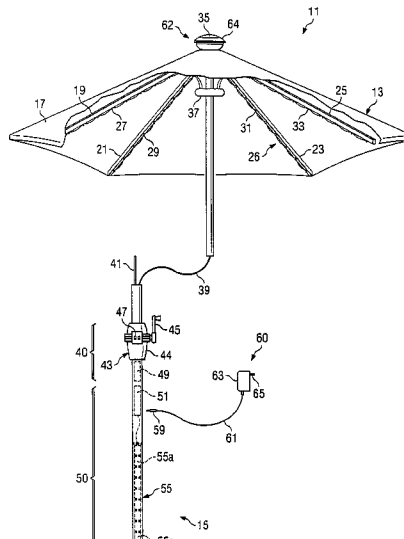
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(57) **ABSTRACT**
A lawn or patio umbrella with an integral lighting system that utilizes cold cathode ray tubes, light emitting diodes (LED's), or florescent lights, to provide relatively bright outdoor light for reading and other activities that require relatively high light intensities is provided. In one embodiment, a modular, electrically powered lawn or patio umbrella in which lighting systems, such as those utilizing cold cathode tubes, LED's, or florescent lights; cooling systems, such as those utilizing electric fans or misting systems; and motorized retraction systems; can be selectively interchanged is provided.

10 Claims, 11 Drawing Sheets



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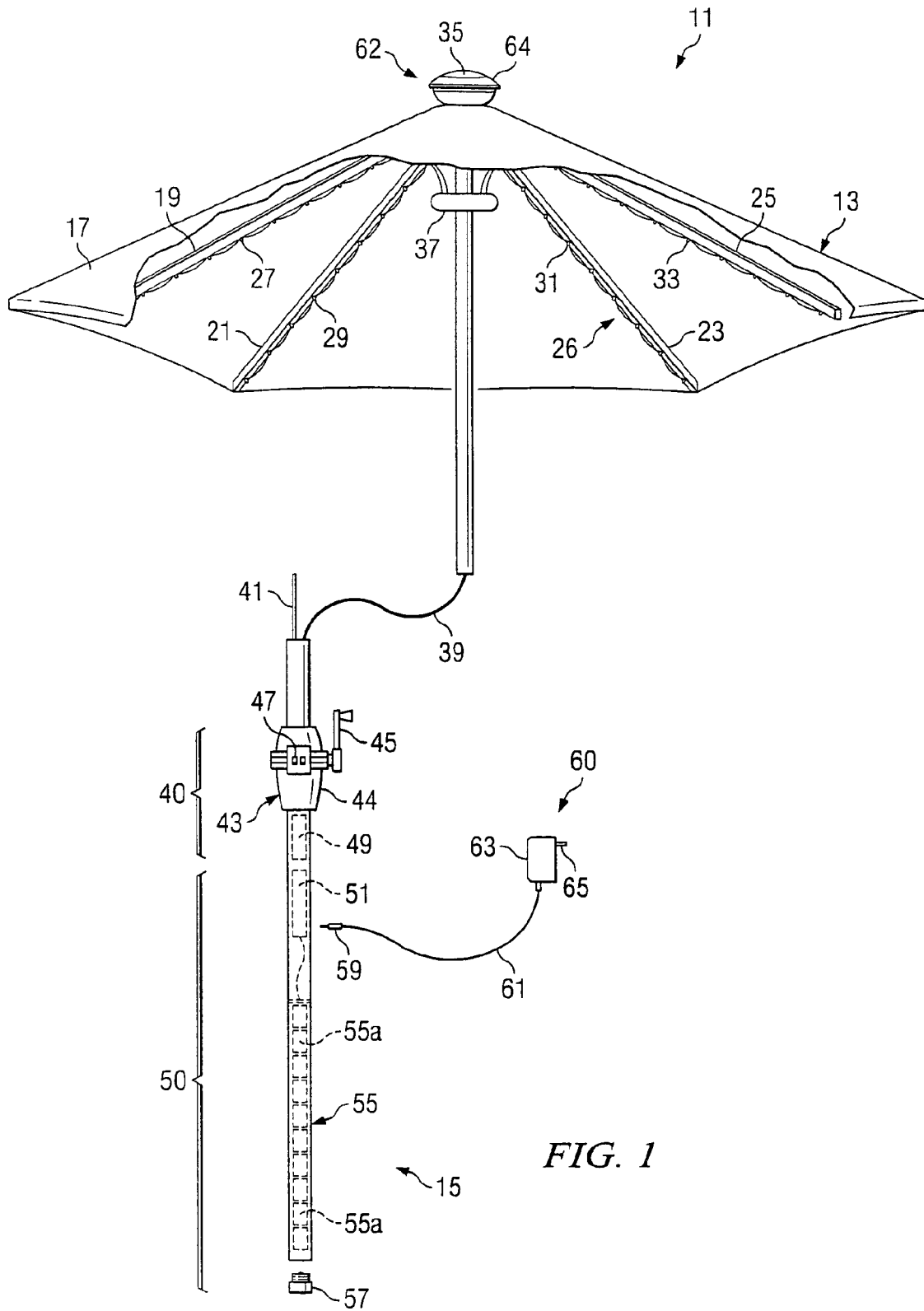
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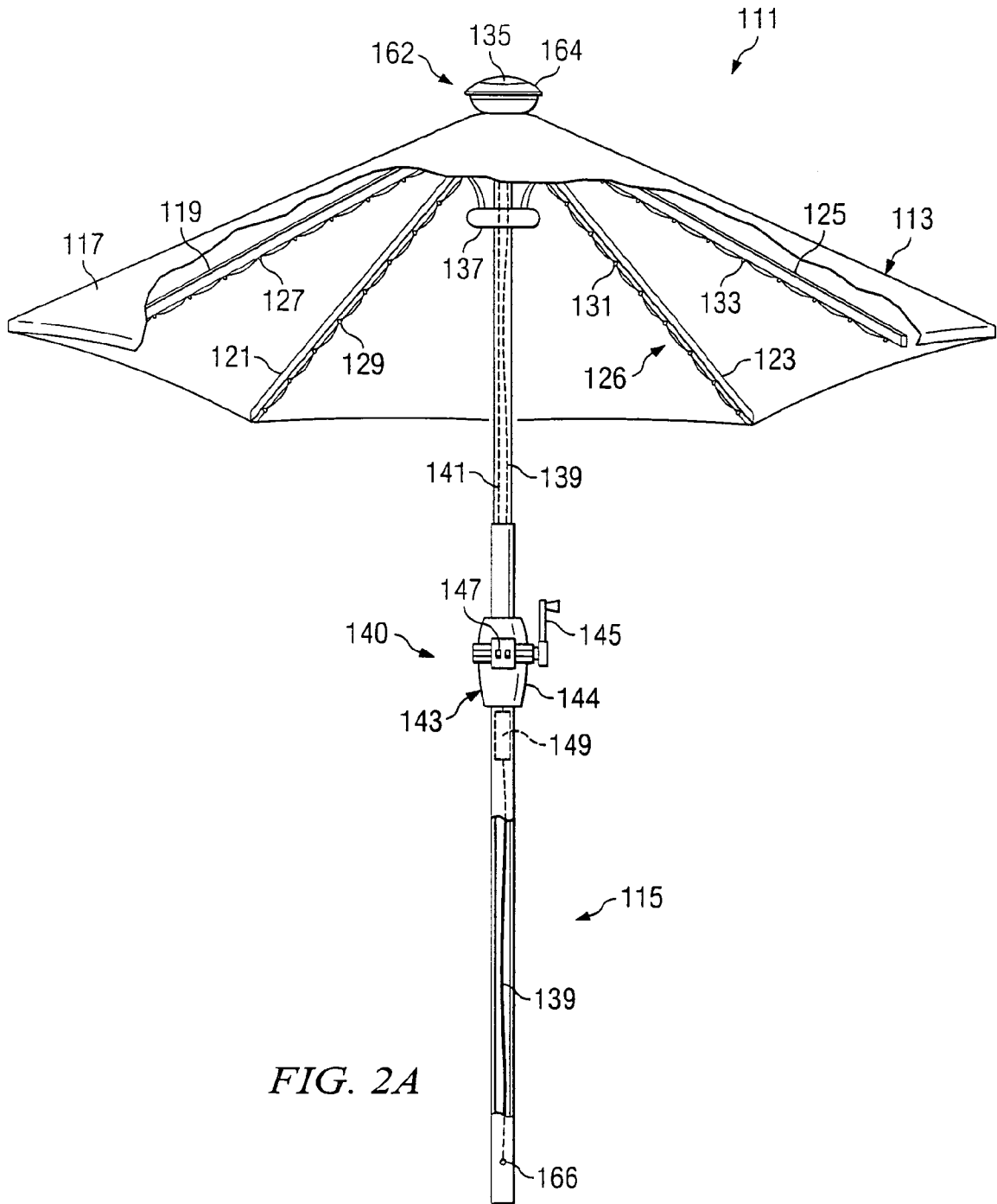


FIG. 2A

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