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(54) **Title:** STREET LIGHTING COMMUNICATIONS, CONTROL, AND SPECIAL SERVICES

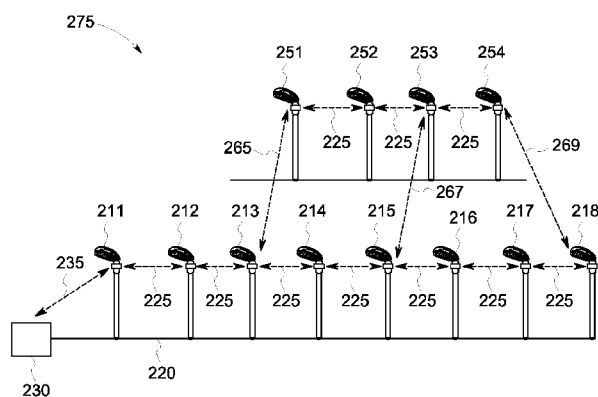


FIG. 2B

(57) **Abstract:** A smart street lighting system and method employs a plurality of street lights having a luminaire, a luminaire associate and a support pole. A communications module is contained within the luminaire associates and a power line is contained within the support poles. The power line is coupled to the communications module, the luminaire associate and the luminaire, and a steerable millimeter wave radar operatively coupled to the communications module. The communications module operates in a radio frequency network in a frequency range of 57-64 GHz. The steerable millimeter wave radar provides a signal reflected from a target that may be received by one of the luminaire associates within the system. A powerline communications system interfaces with the radio frequency network to provide communications between the communications modules in the street lights and the PLC system.



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