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(54) Title: LI-FI COMMUNICATION DEVICE

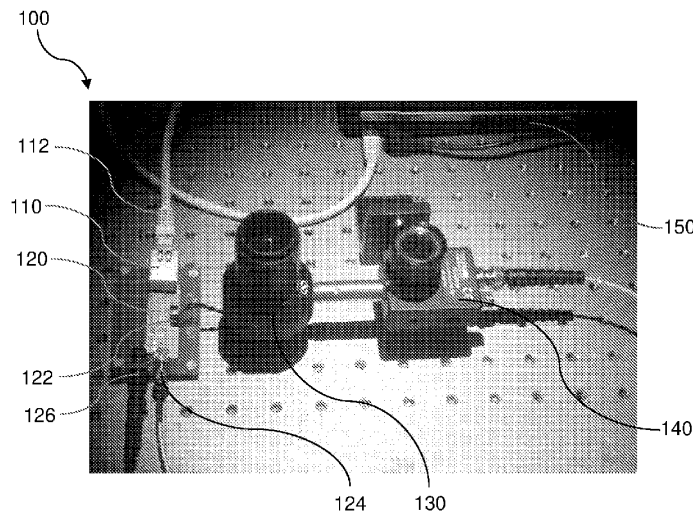


Figure 1A

(57) Abstract: The present disclosure generally relates to a light fidelity (Li-Fi) communication device (100) comprising: a communication interface (110) arranged for selectively connecting to an electronic device (150); and a transceiver module (120) connected to the communication interface (110) and arranged for selectively connecting to at least one illumination element (130) and at least one photodetector thereto (140). The transceiver module (120) is configured for: converting uplink data signals (156) received from the electronic device (150) to uplink driving signals (134) that control the illumination element (130) to transmit uplink optical signals (132); and converting downlink detection signals (146) received from the photodetector (140) to downlink data signals (154) for transmission to the electronic device (150), the downlink detection signals (146) converted from downlink optical signals (142) detected by the photodetector (140).

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