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(54) **WIRELESS LAMP SYSTEM WITH INFRARED CODING FUNCTION**

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(57) **ABSTRACT**

A wireless lamp system with an infrared coding function comprises a wireless lamp, a lamp holder and an encoder. The wireless lamp comprises an LED lamp bead, an LED drive module, a first control module, an infrared signal receiving module and a wireless power receiving module. The lamp holder is electrically connected to an external power supply, and comprises a first wireless power transmitting module, a first infrared signal transmitting module and a second control module. The encoder comprises a power supply module, and a second wireless power transmitting module, a second infrared signal transmitting module and a third control module. The encoder equipped with the infrared signal transmitting module is used for writing corresponding codes, and the infrared coded signal with coding information is transmitted to the wireless lamp change the protocol quickly, such that the wireless lamp system is more universal and more convenient to use.

