

Patent Application of William W. Truxes III for "A NOVEL JACK FORM LED LAMP PACKAGE AND CADDY" continued

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CLAIMS: I claim:

1. A jack form LED lamp package capable of receiving a cable plug, drawing power therefrom to provide task lighting at the end of the cable, said jack form LED lamp package comprising:
 - at least one transducer of electrical energy to radiant energy, said transducer of electrical energy to radiant energy being a device selected from the group consisting of light emitting diodes or LEDs and organic light emitting diodes or OLEDs and laser diodes or LDs, said radiant energy being at least one wavelength or color selected from the group consisting of ultraviolet or UV and visible and infrared or IR;
 - at least one controller to regulate power to said transducer, said controller being a device selected from the group consisting of fixed power regulation controllers and manually variable power regulation controllers and electronically variable power regulation controllers;
 - a lead frame to electrically connect the transducer, the controller, and form a plurality of contacts;
 - a transparent package encapsulating the transducer, the controller and said lead frame, with a recess to receive a plug; and
 - said plurality of contacts protrude into the said recess to make electrical connections to said plugs circuit contacts, and therefrom receiving power and signals, to cause the transducer to emit radiant energy for task lighting.
2. The jack form LED lamp package of claim 1, further comprising an on/off switch for each of the transducers.
3. The jack form LED lamp package caddy stores, transports, and powers, either directly or through a connecting cable, a jack form LED lamp package, said jack form LED lamp package caddy comprising:
 - at least one plug form to carry the jack form LED lamp package;
 - at least one jack form to receive a cable plug;
 - at least one power source terminal form to receive power source terminals;
 - a lead frame to form contacts in said plug form, in said jack form and in said power source terminal form to electrically connect them together; and
 - a case composing the plug form, the jack form, and the power source terminal form encapsulating said lead frame.
4. The jack form LED lamp package caddy of claim 2, further comprising an on/off switch for each of the jacks and the plugs.