

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

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ABSTRACT OF THE DISCLOSURE

A unique LED lamp package is disclosed that can receive a plug (42), make electrical connection in a circuit (39) and cast radiant energy (125) (UV, visible, IR or a combination) in at least one direction rendering objects in that direction visible, hereinafter referred to as a jacklamp (100, 101, 200, 201, 202). In one embodiment (100) the components of a jacklamp, consisting of at least one LED die (120), a controller (110), and an interconnecting lead frame (147), are encapsulated in transparent polymer (400) shaped with a recess (142) to receive a plug (42) and direct radiation (125). In another jacklamp embodiment (201), a commercial off the shelf (COTS) jack (250), a controller (110), and at least one COTS LED (300), are interconnected by a lead frame (147) and encased in a molded polymer package (500). Plug a compatible bus cable into a jacklamp and direct or observe its illumination. A jacklamp will task light areas limited only by the cable length, provide indication of the health of a cable circuit, and identify a single cable in a bundle. In the absence of another bus powering device, the caddy, provides a means of independently powering a jacklamp or a prior art bus pluglamp, besides providing convenient and secure transportation and storage.