

Transparent conductive layers – new options for designers

Pro-Innovatio presents at the *mcbw Momente 2013* for the first time design examples for luminaries and smartphone charging stations with invisible power connection.

Floating lights, seemingly weightless smartphones in docking stations, wireless transparent consoles in vehicles - these effects are the result of new concepts for the use of conductive layers on glass or acrylic for the invisible supply of energy. Based on functional samples, the exhibition demonstrates how these approaches can help create characteristic design elements and surprising effects.

Transparent conductive layers on glass or acrylic are created through sputtering, printing or wet chemical application of suitable materials. According to the technology used different optical and electrical characteristics are obtained.

Up to now applications for those coatings can be found mainly in technical areas for discharging (e.g., for circuits), shielding against high frequency radiation (e.g., windows) or for the construction of touch screens and OLEDs (organic LEDs).

Based on that, Pro-Innovatio researches the use of transparent stands for an invisible transport of comparably high currents to drive powerful electrical devices. The results of studies on suitable materials, geometrical configurations and the design of the contact area are the basis for new applications.

Design samples for luminaries and smartphones charging stations exemplify the variety of new options in design. The variants use glass or acrylic as base material, coatings from sputtering or lamination, and various techniques to produce distinct current and data paths. The exhibits work with up to 600 mA and 16 watt.

Pro-Innovatio offers licenses and consulting and is interested in cooperation with partner companies for a further deployment of the results.

Contact

Dr. Bernhard Kämmerer
Tel.: +49 172 8201182
email: bernhard.kaemmerer@pro-innovatio.com

www.pro-innovatio.com.