

# PROCESS FOR PRODUCING ELECTRICAL DIAGRAM OF LIQUID CRYSTAL POLYMER THIN FILM

## ABSTRACT

A process for producing an electrical diagram of a liquid crystal polymer thin  
5 film comprises preparing the LCP thin film from a liquid crystal polymer. A shielding  
layer is formed on a surface of the LCP thin film. A hollowed-out pattern is produced  
on the shielding layer according to a pre-determined diagram shape. Metal particles  
formed of molten metal are blown by a pressurized gas using normal-temperature  
pressurized thermal spraying. The metal particles pass through the hollowed-out  
10 pattern of the shielding layer, such that the metal particles are sprayed and secured to the  
surface of the LCP thin film to form a metal-molecule bonded layer, and the  
metal-molecule bonded layer is suddenly cooled to form the electrical diagram. The  
shielding layer from the LCP thin film is removed, and the LCP thin film with the  
electrical diagram is taken out.

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(FIG. 2)