ABSTRACT OF THE DISCLOSURE

ELECTROSTATIC CHUCK WITH POLYMER PROTRUSIONS

In accordance with an embodiment of the invention, there is provided an electrostatic chuck. The electrostatic chuck comprises a surface layer activated by a voltage in an electrode to form an electric charge to electrostatically clamp a substrate to the electrostatic chuck. The surface layer includes a plurality of polymer protrusions and a charge control layer to which the plurality of polymer protrusions adhere, the plurality of polymer protrusions extending to a height above portions of the charge control layer surrounding the plurality of polymer protrusions to support the substrate upon the plurality of polymer protrusions during electrostatic clamping of the substrate.

Figure 1