



METHOD AND APPARATUS FOR
MANUFACTURING SOLID ELECTROLYTIC CAPACITOR

ABSTRACT OF THE DISCLOSURE

(a) supplying a capacitor element manufacturing apparatus, in which the capacitor element manufacturing apparatus includes a polymerization tank, a polymerization solution contained in the polymerization tank, and a negative electrode put in the polymerization solution in the polymerization tank, (b) supplying a core material having a plurality of capacitor elements, in which each capacitor element of the plurality of capacitor elements has an anode lead-out portion and a cathode lead-out portion, (c) forming a formation film on the surface of the core material, (d) installing a conductive substance on the formation film, (e) adhering each anode lead-out portion of the plurality of capacitor elements having the conductive substance to a conductive tape, (f) immersing the core material having the anode lead-out portion adhered to the adhesive tape in the polymerization solution, and (g) forming a polymerization film on the cathode lead-out portion of the capacitor element by applying a voltage to the conductive tape are included. By applying a voltage to this conductive tape, the polymerization reaction starts from the surface of the conductive tape, and this polymerization spreads to the cathode lead-out portion of each capacitor of the plurality of capacitors. Polymerization films are formed simultaneously on the cathode lead-out portions of the capacitor elements. As a result, the productivity is notably enhanced.

Figure 6.