

ABSTRACT

A solid electrolytic capacitor manufacturing apparatus, which stably forms a high-quality solid electrolytic layer and is excellent in productivity and workability, is provided. The manufacturing apparatus is provided with a bonding section for bonding an anode electrode to an anode body; a supply section for supplying a polymerization solution in a polymerization tank with the anode body; and cathode electrodes arranged on the both sides in the width direction of the anode body in the polymerization solution in a noncontact status. Electrolytic polymerization is performed by applying a voltage to the anode electrode and the cathode electrode in the polymerization solution from a power supply, and a solid electrolytic layer composed of conductive polymer is formed. Thus, the conductive particles are prevented from being generated and adhered on a polymerization tank inner wall and a change of the effective area of the cathode electrode is suppressed, and a solid electrolytic layer is uniformly formed.