

**ABSTRACT**

An electric double layer capacitor comprising a polarization electrode and an electrolyte capable of forming an electric double layer on the surface of the polarization electrode, wherein the solvent in the electrolyte is an organic type mixed solvent containing sulfolane or a sulfolane derivative, and a chain carbonic acid ester represented by the general formula $R^1O(CO)OR^2$ (wherein R^1 and R^2 , which may be the same or different, are monovalent organic groups).