

ION-CONDUCTIVE COMPOSITION, GEL ELECTROLYTE,
NON-AQUEOUS ELECTROLYTE BATTERY, AND ELECTRICAL
DOUBLE-LAYER CAPACITOR

ABSTRACT

An ion-conductive composition includes an electrolyte
5 solution made of an ion-conductive salt and a solvent in
which the ion-conductive salt is soluble, and a
thermoplastic resin having a specific swelling ratio when
immersed in the electrolyte solution. The invention is also
directed at a gel electrolyte produced by shaping the
10 thermoplastic resin, then immersing it in an electrolyte
solution to effect swelling. High-performance non-aqueous
electrolyte batteries and electrical double-layer capacitors
can be built using a thermoplastic resin-containing
electrode binder composition in which the resin bonds well
15 with active materials or activated carbon and which has an
excellent adhesion to current conductors.

Figure 1