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(54) **Title:** A POLARIZABLE ION-CONDUCTING MATERIAL

(57) **Abstract:** A polarizable ion-conducting material. The material contains mobile ions and a matrix formed of a polymer having ionic groups of a charge opposite to that of the mobile ions, wherein the material has a polarization of at least 0.2 mC/g, a capacitance of at least 0.1 mF/g, and a polarization retention time of at least 5 seconds. Also disclosed is a device containing such a polarizable ion-conducting material.

