

ABSTRACT

MEMORY DEVICES BASED ON ELECTRIC FIELD PROGRAMMABLE FILMS

Disclosed herein is an electric field programmable film comprising a polymer bonded to an electroactive moiety. Disclosed herein too is a method of manufacturing an electric field programmable film comprising depositing upon a substrate, a composition comprising a polymer and an electroactive moiety that is bonded to the polymer. Disclosed herein too is a data processing machine comprising a processor for executing an instruction; and a memory device comprising an electric field programmable film, wherein the electric field programmable film comprises a polymer bonded to an electroactive moiety, and further wherein the memory device is in electrical and/or optical communication with the processor.