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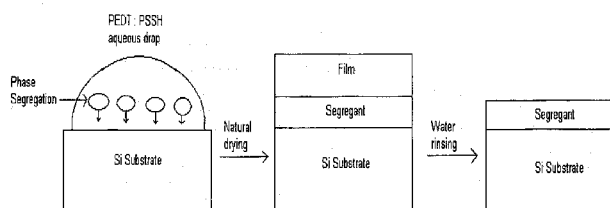


FIG. 1

(57) Abstract: A coated substrate includes a substrate and a coating containing a water insoluble polymer and a water soluble polymer, the two polymers, due to different water affinity, forming a nanosegregant on the substrate. Also disclosed are a method of preparing the above-described coated substrate and the use of this coated substrate in a solid-state supercapacitor.