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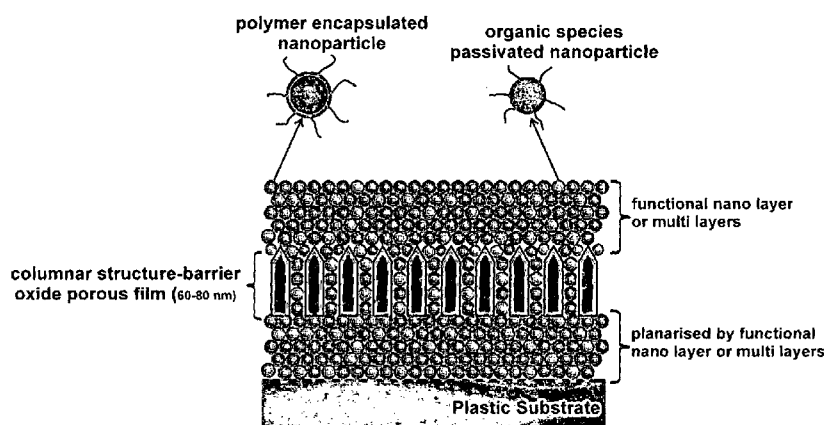
(54) **Title:** ENCAPSULATION BARRIER STACK

Fig. 3C

(57) **Abstract:** Disclosed is an encapsulation barrier stack, capable of encapsulating a moisture and/or oxygen sensitive article and comprising a multilayer film, wherein the multilayer film comprises: one or more barrier layer(s) having low moisture and/or oxygen permeability, and one or more sealing layer(s) arranged to be in contact with a surface of the at least one barrier layer, thereby covering defects present in the barrier layer, wherein the one or more sealing layer(s) comprise(s) a plurality of encapsulated nanoparticles, the nanoparticles being reactive in that they are capable of interacting with moisture and/or oxygen to retard the permeation of moisture and/or oxygen through the defects present in the barrier layer. The encapsulation of the particles can be obtained by polymerising a polymerisable compound (a monomeric or a polymeric compound with polymerisable groups or) cross-linking a cross-linkable compound on the surface of the reactive nanoparticles.

