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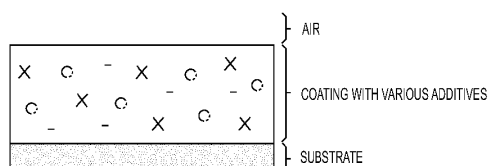
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(54) Title: COMPOSITION AND METHOD FOR IMPROVING DURABILITY OF ELECTRICALLY INSULATING AND WATERPROOFING GEL COATING SYSTEMS

Demonstrating migration of additives from coating
to coating/substrate interface to inhibit degradation
of coating or underlying substrate

At $t=0$ upon coating application



At $t=t_{\text{equilibrium}}$

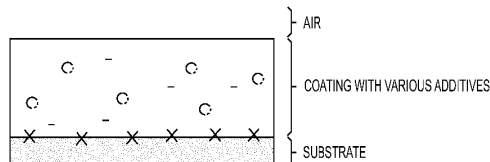


FIG. 3

(57) Abstract: There is disclosed a composition for forming a con-
formal gel coating to protect a substrate from various environments,
wherein the composition comprises at least one film former, at least
one additive and optionally at least one solvent. The composition is
deformable, flowable, electrically insulating, and does not contain
fluorine when applied as a coating. Gel coatings, methods of apply-
ing such coating to substrates, as well as the coated substrates are
also disclosed. Non-limiting examples of such substrates include a
printed circuit board, an assembled electronic device or an automo-
tive part.

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