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Abstract



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Moisture detection methods and devices

In order to measure the permeation of moisture through a laminar moisture barrier (typically a plastic substrate 101 covered by one or more coatings
5 102), a capacitor 103, 104, 105 is formed on one surface of the moisture barrier. The other side of the moisture barrier is exposed to an environment containing moisture. The capacitor includes electrically conductive layers 103, 105 sandwiching a dielectric layer 104 water absorbent material (typically a desiccant), so that as moisture permeates through the moisture barrier it
10 enters the dielectric 104 and changes its dielectric properties. A measurement of the capacitance of the capacitor thus gives an indication of the amount of moisture which has passed through the moisture barrier.

Figure 4b