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(54) **CAPACITANCE ELECTRODE STRUCTURE FOR MEASURING MOISTURE**

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See application file for complete search history.

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(57) **ABSTRACT**

Device (1) for measuring moisture of materials flowing in the shape of dried, liquid or gaseous granulates, or in the shape of powders in at least one duct disposed at least partially along an axis (X-X) through which the material of which the moisture has to be measured flows, comprising: at least one capacitor (Cx) wherein the material of which the moisture has to be measured flows, characterized in that the capacitor (Cx) comprises: at least two metallic rings (3) coaxially mounted to said axis X-X and adjacent to an inner wall of the duct through which the material of which the moisture has to be measured flows; at least one dielectric element (5) having: dielectric constant substantially linear with the temperature changing, and thermal expansion lower than  $\alpha=27 \times 10^{-6}/^{\circ}\text{C}$ .

**14 Claims, 2 Drawing Sheets**

