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(54) Title: SENSOR HEAD, A MEASURING DEVICE COMPRISING THE SENSOR HEAD AND A METHOD FOR CALIBRATING THE MEASURING DEVICE

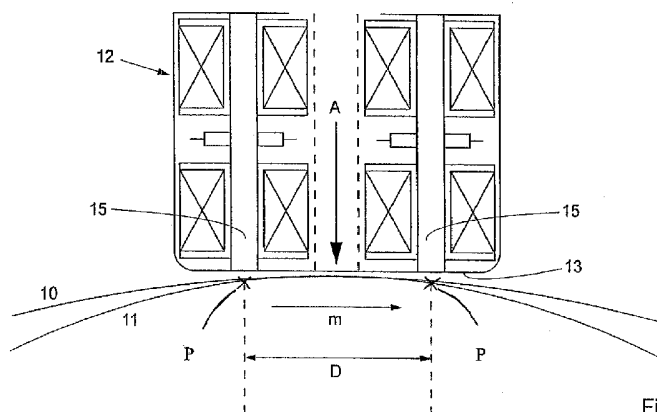


Fig.2

(57) Abstract: The present invention relates to a sensor head for measuring the thickness of a layer coated on an elongated strip of material passing by the sensor head. The sensor head has a front surface that is facing the surface of the elongated strip. The front surface comprises an air outlet placed in the centre of the front surface. The outlet is connected to an gas supply device generating an gas flow out from the air outlet directed substantially perpendicular from front surface in order to form a gas cushion that the sensor head is resting on. The front surface further comprises two or four sensors placed at the same distance from the centre of the front surface, with the two sensors radially opposite to each other, and in case of four sensors the additional two sensors are placed radially opposite to each other between the first two sensors. The present invention also involves a measuring device comprising the sensor head described above and a method for calibrating the measuring device.

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