

[54] **LIGHT AND WEATHER RESISTANCE SENSING SYSTEM WITH A SENSED SIGNAL TRANSMISSION CHANNEL**

[75] **Inventors:** Walter Stürm, Hanau; Helmut Becker, Limeshain; Jürgen Witt, Hainburg; Werner Fritz, Steinau-Sarrod; Ursula Eysholdt, Hanau, all of Fed. Rep. of Germany

[73] **Assignee:** W. C. Heraeus GmbH, Hanau, Fed. Rep. of Germany

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[58] **Field of Search** ..... 73/150 R, 159; 250/372, 250/373, 239, 226; 356/407, 51; 340/870.1, 870.26, 870.4

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*Primary Examiner*—Carolyn E. Fields

*Attorney, Agent, or Firm*—Frishauf, Holtz, Goodman & Woodward

[57] **ABSTRACT**

A light and weather resistance testing apparatus (9) is provided with a sensor (1) located in the plane of the testing samples (14). The sensor (1) uses a transmitter (4) for wireless transmission of signals representing radiation received to an antenna (3) disposed on the wall (8) of the apparatus housing. The sensor (1) has multiple receptor cells (6) for various spectral ranges. The sensor (1) is powered by solar cells (7) located on the sensor housing. A plotter and display unit (13) can be connected to the apparatus for read-out of irradiance and irradiation. The wireless transmission of data from sensors to the display unit permits continuous measurement during rotation of samples and sensor.

**4 Claims, 4 Drawing Figures**

