US006626052B1

(12) **United States Patent**
Martin et al.

(10) **Patent No.: US 6,626,052 B1**
(45) **Date of Patent: Sep. 30, 2003**

(54) **METHOD AND APPARATUS FOR ARTIFICIAL WEATHERING**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/180,079**

(22) PCT Filed: **Apr. 25, 1997**

(86) PCT No.: **PCT/US97/07004**

§ 371 (c)(1),
(2), (4) Date: **Aug. 2, 1999**

(87) PCT Pub. No.: **WO97/41417**

PCT Pub. Date: **Nov. 6, 1997**

Related U.S. Application Data

(60) Provisional application No. 60/016,731, filed on May 2, 1996.

(51) **Int. Cl.**[7] **G01N 17/00**

(52) **U.S. Cl.** **73/865.6**; 356/236; 250/228

(58) **Field of Search** 73/865.6; 356/236; 250/228

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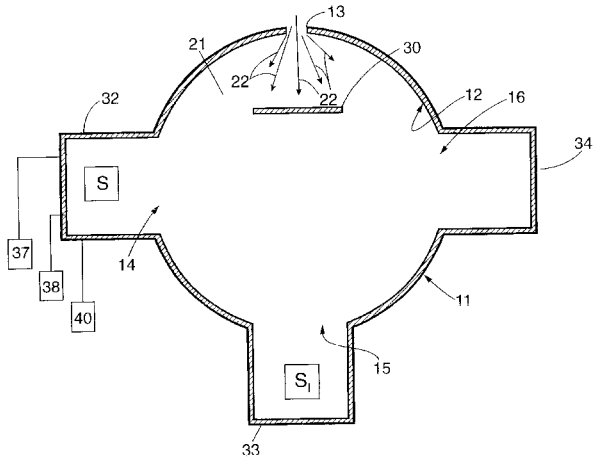
(57) **ABSTRACT**

A method and apparatus for irradiating a specimen with a beam of radiation are provided. The method comprises the steps of providing an integrating sphere, a radiation source radiatively communicating with the sphere, and a specimen, the integrating sphere radiatively communicating with the specimen through an aperture in the sphere. The apparatus comprises a radiation source, an integrating sphere in radiative communication with the radiation source, and a specimen holder in radiative communication with the integrating sphere. The disclosed apparatus and method allow the irradiance of a beam of radiation impinging on the specimen to be maintained at a uniform level across the width of the beam to allow quantitative specimen evaluation.

26 Claims, 9 Drawing Sheets